PERKIN-ELMER Memory Products Division

SUPER SERIES (SF AND ST)

MAGNETIC DISK DRIVE

OPERATION AND MAINTENANCE VOLUME 2

RECORD OF REVISIONS

	Date	Revision Description							
A Original issue of Volume 2 due to two-volume split of original 6/7 śingle-volume manual.	Date	Description	nevision						
	6/79	Original issue of Volume 2 due to two-volume split of original	A						

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SECTION 1

LOGIC SCHEMATICS

1.1 INTRODUCTION

This volume contains all data essential to understand the logic functions of the SF and ST Disk Drives, as described in Volume 1. The information is presented in the following manner:

Section 1 Logic Schematics

Section 2 PWB Assembly Drawings

Section 3 Master Spare Parts List

1.2 LOGIC DEFINITION AND SYMBOLOGY

DTL and TTL logic of the typical inverting type (NAND - NOR rather than AND - OR) is used, though some AND - OR elements are employed. Although the same device may be used to implement both the NAND and the NOR function, the symbols shown on the logic schematics correspond to the particular functional operation.

In most cases, reference designations are not assigned to the system components. A grid coordinate system is used with the alphabetic coordinates progressing upward across the top of the circuit board from right to left (A in the upper right-hand corner). Numeric coordinates start at the bottom of the circuit board and advance upward. For example: a component having a grid coordinate of A1 will be found in the extreme lower right-hand corner of the board. These alphabetic and numeric reference points are etched on the board.

In the logic schematics, the input/output lines to each device are shown for the true (active) state of the function. A state indicator, shown as a small circle at the input or output of a device, signifies that, if that line is in the true state, it is at a 0-volt potential (low). Lack of a state indicator signifies that, if that line is in the true state, it is at +5 volts (high). An example of a logic symbol with definitions is shown below in Figure 1-1, the symbol depicts a logical NOR element which represents that output D is at +5 volts if either input A, B, or C is at 0-volt.

The numbers within the arrowheads indicate the source or destination of the related signal by logic schematic page number. An arrowhead placed adjacent to a signal line indicates a connection at that point.

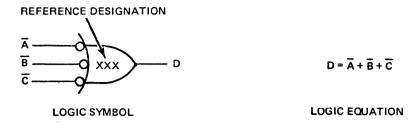


Figure 1-1. Logic Symbol Example

Table 1-1 lists and shows logic symbols used in this manual.

Table 1-1, Logic Symbols

0619

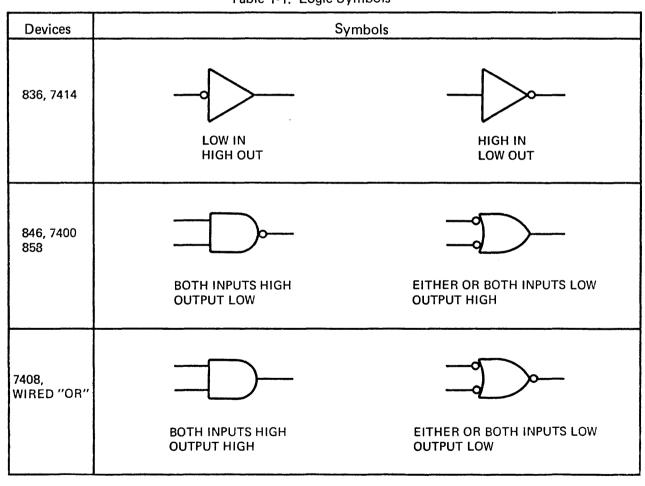


Table 1-1. Logic Symbols (continued)

Devices	Symbols					
7402	BOTH INPUTS LOW OUTPUT HIGH	EITHER OF OUTPUT L	R BOTH INPUTS HIGH			
7418	BOTH INPUTS LOW OUTPUT LOW	EITHER OF OUTPUT H	R BOTH INPUTS HIGH			
844	ALL INPUTS HIGH OUTPUT LOW	ANY OR OUTPUT	ALL INPUTS LOW HIGH			
862	ALL INPUTS HIGH OUTPUT LOW	ANY OR OUTPUT	ALL INPUTS LOW			
9	O/S Vcc	ONE-SHOT	POSITIVE-GOING PULSE AT "1" OUTPUT NEGATIVE-GOING PULSE AT "0" OUTPUT INITIATED WHEN INPUT PULSE MAKES TRANSITION TO TRUE STATE			

1.3 INTEGRATED CIRCUIT REFERENCE DATA

The following integrated circuit (IC) reference data is provided in part number sequence to assist experienced personnel in maintenance of the equipment. Each IC used in the SF and ST Disk Drives is defined by logic symbol, equation, and package configuration. Block diagrams, truth tables, and detailed descriptions are provided, as required. Reference data for all IC's used in SF and ST Disk Drives are provided.

1.4 LOGIC SCHEMATICS

The following listed logic schematics are provided:

Title	Dwg. No.
Line Terminator PWB	300095
Line Terminator PWB, D31/33 Female	301048
Line Terminator PWB, D31/33 Male	301056
I/O Connector, D31/33	301063
Line Terminator PWB, D40 Male	
Control Interface PWB	
Data Electronics PWB	301207
I/O Connector PWB	
Data Interface PWB (VFO)	
Power Supply	
MFM Data Control-2	
Detent Amplifier	
Servo Amplifier	301484
Disk Control PWB	
Electronics Interconnect PWB	301637
Servo Logic PWB	
H.I. Spindle Interconnection Diagram	301691
Spindle Switch PWB	301790
I/O PWB — D40	301937
I/O Connector With Interrupt Option	
Piggyback-I/O Connector With Interrupt Option	
Emergency Retract	
,	

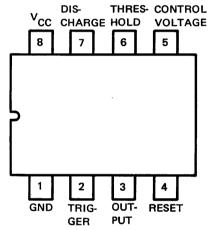
SN52555 (555)

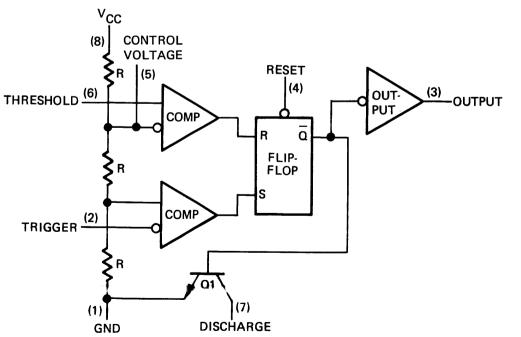
Precision Timer

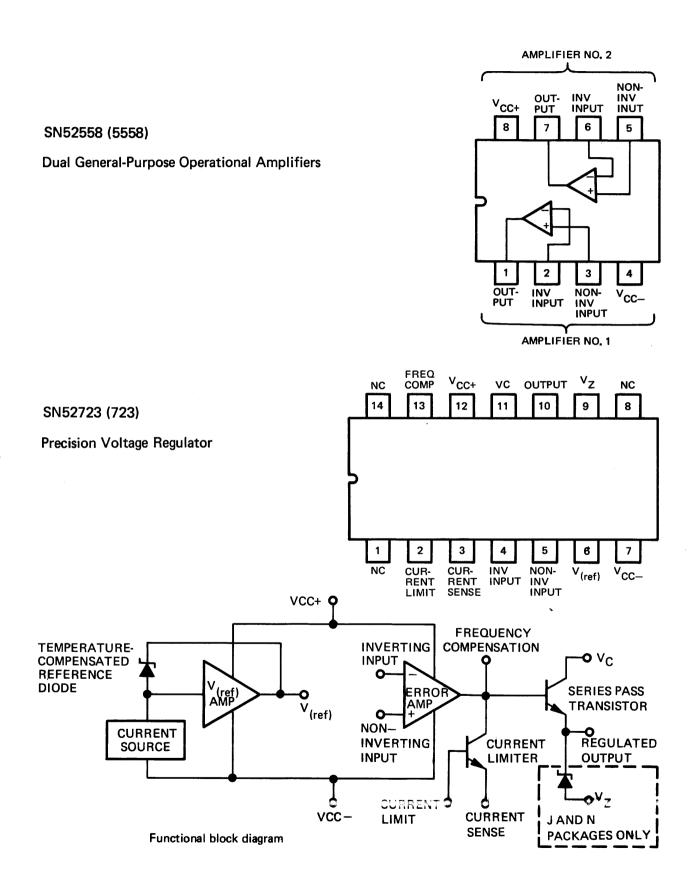
The SN52555 is a monolithic timing circuit capable of producting an accurate time delay or oscillation. In the time-delay or monostable mode of operation, the timed interval is controlled by a single external resistor and capacitor network. In the astable mode of operation, the frequency and duty cycle may be independently controlled with two external resistors and a single external capacitor.

The threshold and trigger levels are normally two-thirds and one-third, respectively, of V_{CC} . These levels can be altered by use of the control voltage terminal. When the trigger input falls below the trigger level, the flip-flop is set and the output goes high. When the threshold input rises above the threshold level, the flip-

flop is reset and the output goes low. The reset input can override all other inputs and can be used to initiate a new timing cycle. When the reset input goes low, the flip-flop is reset and the output goes low. When the output is low, a low-impedance path is provided between the discharge terminal and ground.

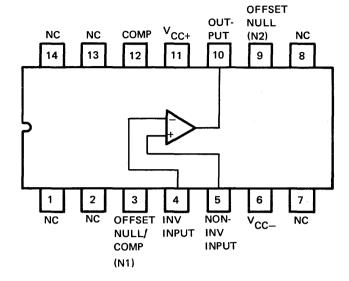






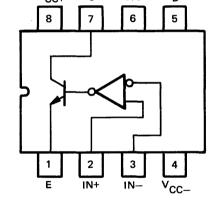
SN72301 (LM301)

High Performance Operational Amplifier.



SN72311 (LM311)

High-Speed Voltage Comparator

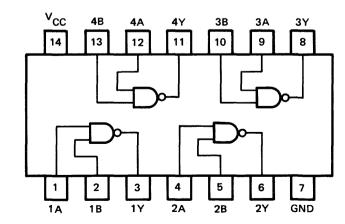


В Balance B/S Balance/Strobe С **Collector Output Emitter Output** IN+ Noninverting Input IN-Inverting Input NC No Internal Connection Positive Supply Voltage V_{CC}-Negative Supply Voltage

7400

Quad 2-Input Positive-Nand Gates

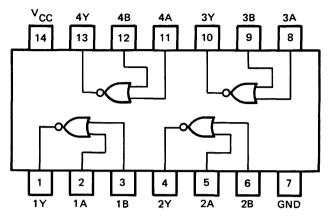
Positive Logic: $Y = \overline{AB}$



7402

Quad 2-Input Positive-Nor Gates

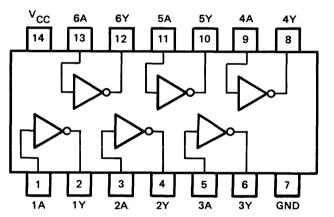
Positive Logic: $Y = \overline{A+B}$



7404

Hex Inverters

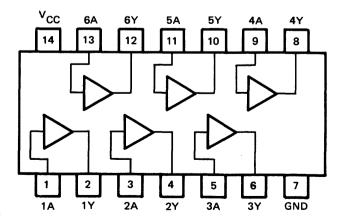
Positive Logic: $Y = \overline{A}$



7407

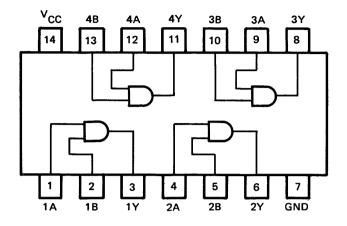
Hex Buffers/Drivers With Open-Collector High-Voltage Outputs

Positive Logic: Y = A



Quad 2-Input Positive-And Gates

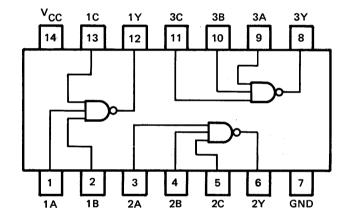
Positive Logic: Y = AB



7410

Triple 3 Input Positive-Nand Gates

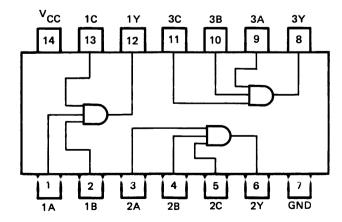
Positive Logic: $Y = \overline{ABC}$



7411

Triple 3-Input Positive-And Gates

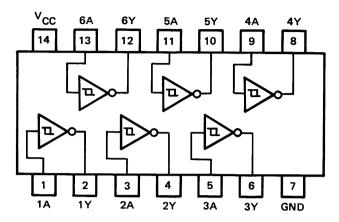
Positive Logic: Y = ABC



7414

Hex Schmitt-Trigger Inverters

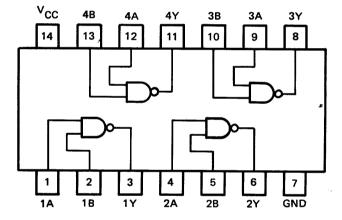
Positve Logic: $Y = \overline{A}$



7426

Quad 2-Input High-Voltage Interface Positive-Nand Gates

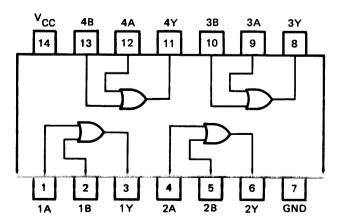
Positive Logic: $Y = \overline{AB}$



7432

Quad 2-Input Positive-Or Gates

Positive Logic: Y = A+B



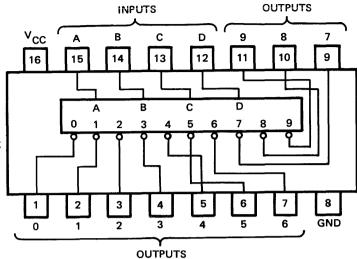
SN74LS42

4-Line-to-10-Line Decoder

(BCD-to-Decimal)

This monolithic decimal decoder consists of eight inverters and ten four-input NAND gates. The inverters are connected in pairs to make BCD input data available for decoding by the NAND gates.

Full decoding of valid input logic ensures that all outputs remain off for all invalid input conditions.



All Outputs Are High for Invalid Input Conditions

Positive Logic: See Function Table

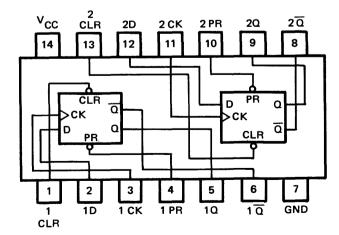
NO.	В	CD II	NPUT					DECI	MAL	OUT	PUT			
	D	С	В	Α	0	1	2	3	4	5	6	7	8	9
0 1 2 3 4		L L L	L H H L	L H L H L	JIIII	H H H	H H L H	H H L	H H H L	H H H H	H H H H	H H H H	H H H H	T T T T T
5 6 7 8 9	L L H H	H H L L	L H L L	H L H	#####	H H H H H	H H H H	H H H H	H H H	L H H H	H H H	H L H	H H L	H H H H L

7474

Dual D-Type Positve-Edge-Triggered Flip-Flops with Preset and Clear

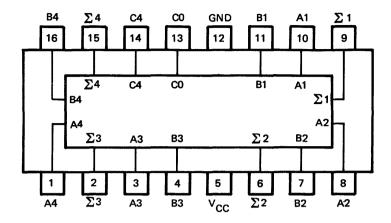
FUNCTION TABLE

	INPUTS							
PRESET	CLEAR	сьоск	D	α	ā			
L H L H H	H L L H H	× × × †	X X X H L	H L H* H L Q _O	L H H* L H <u>Q</u> O			



SN74LS83 (7483)

4-Bit Binary Full Adder



This full adder perform the addition of two 4-bit binary numbers. The sum (Σ) outputs are provided for each bit and the resultant carry (C4) is obtained from the fourth bit. The adder is designed so that logic levels of the input and output, including the carry, are in their true form. Thus the end-around carry is accomplished without the need for level inversion. Designed for medium-to-high-speed, the circuits utilize high-speed, highfan-out transistor-transistor logic (TTL) but are compatible with both DTL and TTL families.

						OUT	PUT		
	INF	PUT		WHE			WHEN		
						VHEN 2 = L			/HEN 2 = H
A1	B1	A2/	B2	$\Sigma 1$	Σ2	C2/	Σ1	Σ2	C2/
/ A3	∕ B3	/ A4	∕ B4	Σ3	Σ 4	/ C4	⁄Σ3	/Σ4	/ C4
							H L L H H L L H H L L H		

H = high level, L = low level

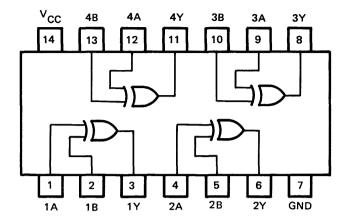
NOTE: Input conditions at A3, A2, B2, and C0 are used to determine outputs Σ1 and Σ2 and the value of the internal carry C2. The values at C2, A3, B3, A4, and B4 are then used to determine outputs Σ3, Σ4, and C4.

^{*}This Condition is Non-Stable.

7486

Quad 2-Input Exclusive-OR Gates

Positive Logic: $Y = A \oplus B = \overline{A}B + A\overline{B}$



INPUTS

Н

Н

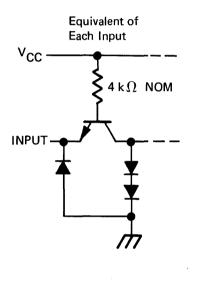
Н

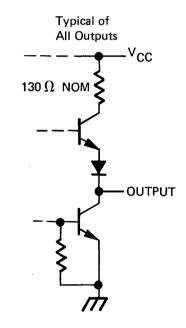
Н

OUTPUT

Υ

Н



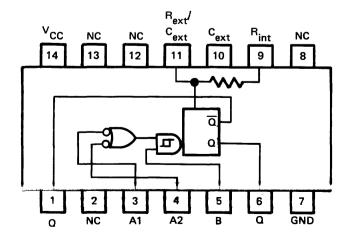


74121

Monostable Multivibrators

FUNCTION TABLE

11	NPUT	S	OUTI	PUTS
A1	A2	В	Q	ā
L	Х	Н	L	Н
X	L	Н	L	Н
X	Χ	L	L	Н
ļΗ	Н	L X	L	Н
н	+	Н	л	Ţ
+	Н	Н	л	ъ
! +	+	H	-	7.5
L	X	†	7.	ъ
X	L	†	Λ.	ъ

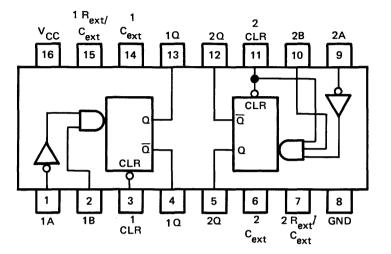


74123

Dual Retriggerable Monostable Multivibrators With Clear

FUNCTION TABLE

	INP	оит	PUTS		
	CLEAR	Α	В	Q	ā
	L	Х	Х	L	н
	Х	Н	Х	L	Н
	X	Х	L	L	Н
	н	L	↑	Л	Л
i	Н	+	Н	Л	L
Į	↑	L	Н	几	Ţ

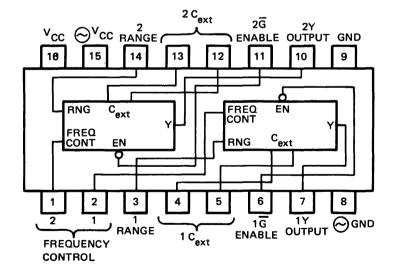


SN74S124 (4024)

Dual Voltage-Controlled Oscillators

Positive Logic:

While the enable input is low, the output is enabled. While the enable input is high, the output is high.

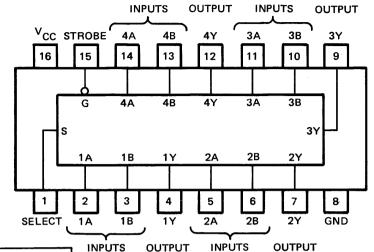


SN54LS157

Quad 2 line-to-1 line Data Selector/Multiplexer

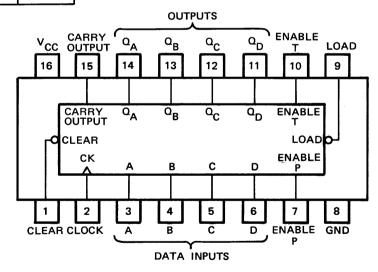
Positive Logic:

Low level at S selects A inputs High level at S selects B inpt inputs



	INPUTS	OUTPU	ГΥ		
STROBE	SELECT	Α	В	'157, 'L157, 'LS157,'S157	'LS158 'S158
H L L	X L H	X L H X	X X L H	L L H L	H H L H





This synchronous, presettable counter features an internal carry look-ahead for application in high-speed counting schemes. The '161 is a 4-bit binary counter. Synchronous operation is provided by having all flip-flops clocked simultaneously so that the outputs change coincident with each other when so instructed by the count-enable inputs and internal gating. This mode of operation eliminates the output counting spikes which are normally associated with asynchronous (ripple clock) counters. A buffered clock input triggers the four J-K master-slave flip-flops on the rising (positive-going) edge of the clock input waveform.

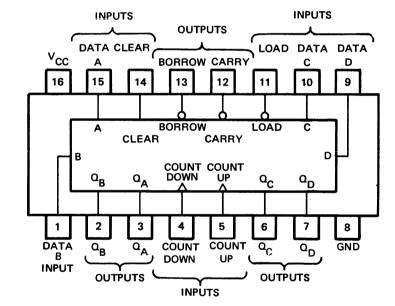
This counter is fully programmable; that is, the outputs may be preset to either level. As presetting is synchronous, setting up a low level at the load input disables the counter and causes the outputs to agree with the setup data after the next clock pulse regardless of the levels of the enable inputs. Low-to-high transistions at the load input should be avoided when the clock is low if the enable inputs are high at or before the transistion. The clear function of the '161 is asynchronous and a low level at the clear input sets all four of the flip-flop outputs low regardless of the levels of the clock, load, or enable inputs.

The carry look-ahead circuitry provides for cascading counters for n-bit synchronous applications without additional gating. Instrumental in accomplishing this function are two count-enable inputs and a carry output. Both count-enable inputs (P and T) must be high to count, and input T is fed forward to enable the carry output. The carry output thus enabled will produce a positive output pulse with a duration approximately equal to the positive portion of the $\mathbf{Q}_{\mathbf{A}}$ output. This positive overflow carry pulse can be used to enable successive cascaded stages. High-to-low-level transistions at the enable P or T inputs should occur only when the clock input is high.

SN74192 (9360) (BCD Counter) SN74193 (9366) (Binary Counter)

Synchronous 4-Bit Up/Down Counters

Logic: Low input to load sets $Q_A = A$ $Q_B = B$, $Q_C = C$, and $Q_D = D$



Synchronous operation is provided by having all flip-flops clocked simultaneously so that the outputs change coincidently with each other when so instructed by the steering logic. This mode of operation eliminates the output counting spikes which are normally associated with asynchronous (ripple-clock) counters.

The outputs of the four master-slave flip-flops are triggered by a low-to-high-level transition of either count (clock) input. The direction of counting is determined by which count inputs is pulsed while the other count input is high.

All four counters are fully programmable; that is, each output may be preset to either level by entering the desired data at the data inputs while the load input is low. The output will change to agree with the data inputs independently of the count pulses. This feature allows the counters to be used as modulo-N dividers by simply modifying the count length with the preset inputs.

Dual Peripheral Positive -AND Driver

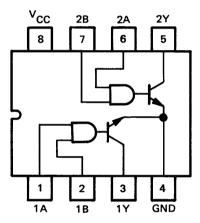
Α	В		Υ
コーエエ	THH	JJJI	(on state) (on state) (on state) (off state)

V _{СС}	2B 7	2A 6	2Y 5	
]		pH.	
		X	1	
1 1A	2 1B	3 1Y	4 GND	

75452

Dual Periperal Positive -NAND Driver

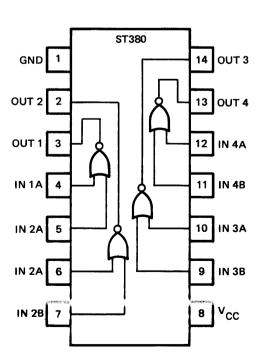
Α	В	Y		
L H H	L H H	H H L	(off state) (off state) (off state) (on state)	



8T380

Quad 2-Input Bus Receiver

The 8T380 is a quad 2-input bus receiver with hysteresis for use in I/O, data, and memory busses. Built in hysteresis provides maximum noise immunity and a power-up or power-down sequence on the receiver will not affect the bus. Low input current allows several drivers and receivers to communicate over a common bus in "Party Line" fashion. The receiver has been designed to be pincompatible with the Signetics Utilogic II SP 380 gate and provides increased noise immunity as well as lower input current. The 8T380 is ideal as a Schmitt Trigger in analog interfaces that cannot tolerate the non-linear input impedance characteristics of standard TTL. Further, the low input requirements allow the 8T380 to be used as a CMOS to TTL interface. All inputs have clamping diodes to simplify systems design.



Phase-Frequency Detector Symbol: Package: P

** * Charge Pump #Amplifier

Description:

This device contains two digital phase detectors and a charge pump circuit which converts MTTL inputs to a do voltage level for use in frequency discrimination and phase-locked loop applications.

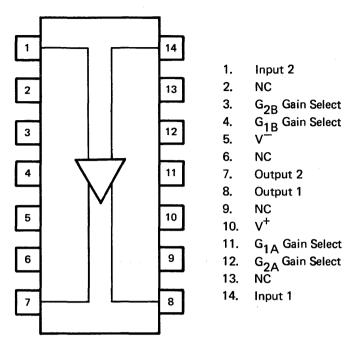
The two phase detectors have common inputs. Phase-frequency detector 1 is locked in (indicated by both outputs high) when the negative transitions of the variable input (V1) and reference input (R1) are equal in frequency and phase. If the variable input is lower in frequency or lags in phase, the U1 (up) goes low; conversely the D1 (down) output goes low when the variable input is higher in frequency or leads the reference input in phase. It is important to note that the duty cycles of the variable input and the reference input are not important since negative transitions control system operation.

Phase detector 2 is locked when the variable input phase lags the reference phase by 90° (indicated by the U2 and D2 outputs alternately going low with equal pulse widths). If the variable input phase lags by more than 90° , U2 will remain low longer than D2, and conversely, if the variable input phase lags the reference phase by less than 90° , D2 remains low longer. In this phase detector the variable input and the reference must have 50% duty cycles.

The charge pump accepts the phase detector outputs (U1 or U2 applied to PU and D1 or D2 applied to PD) and converts them to fixed amplitude positive and negative pulses at the UF and DF outputs respectively. These pulses are applied to a lag-lead active filter, which incorporates external components, as well as the amplifier provided in the MC4344/4044 circuit. The filter provides a dc voltage proportional to the phase error.

Video Amplifier

The SE/NE 592 is a monolithic, two stage, differential output, wideband video amplifier. It offers fixed gains of 100 and 400 without external components and adjustable gains from 400 to 0 with one external resistor. The input stage has been designed so that with the addition of a few external reactive elements between the gain select terminals, the circuit can function as a high pass, low pass, or band pass filter. This feature makes the circuit ideal for use as a video or pulse amplifier in communications, magnetic memories, display and video recorder systems. The 592 is a pin-for-pin replacement for the μ A733.

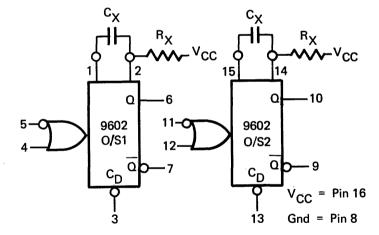


9602

Multivibrator

9602 is DC level sensitive retriggerable monostable multivibrators which provides an output pulse whose duration and accuracy is a function of external timing components.

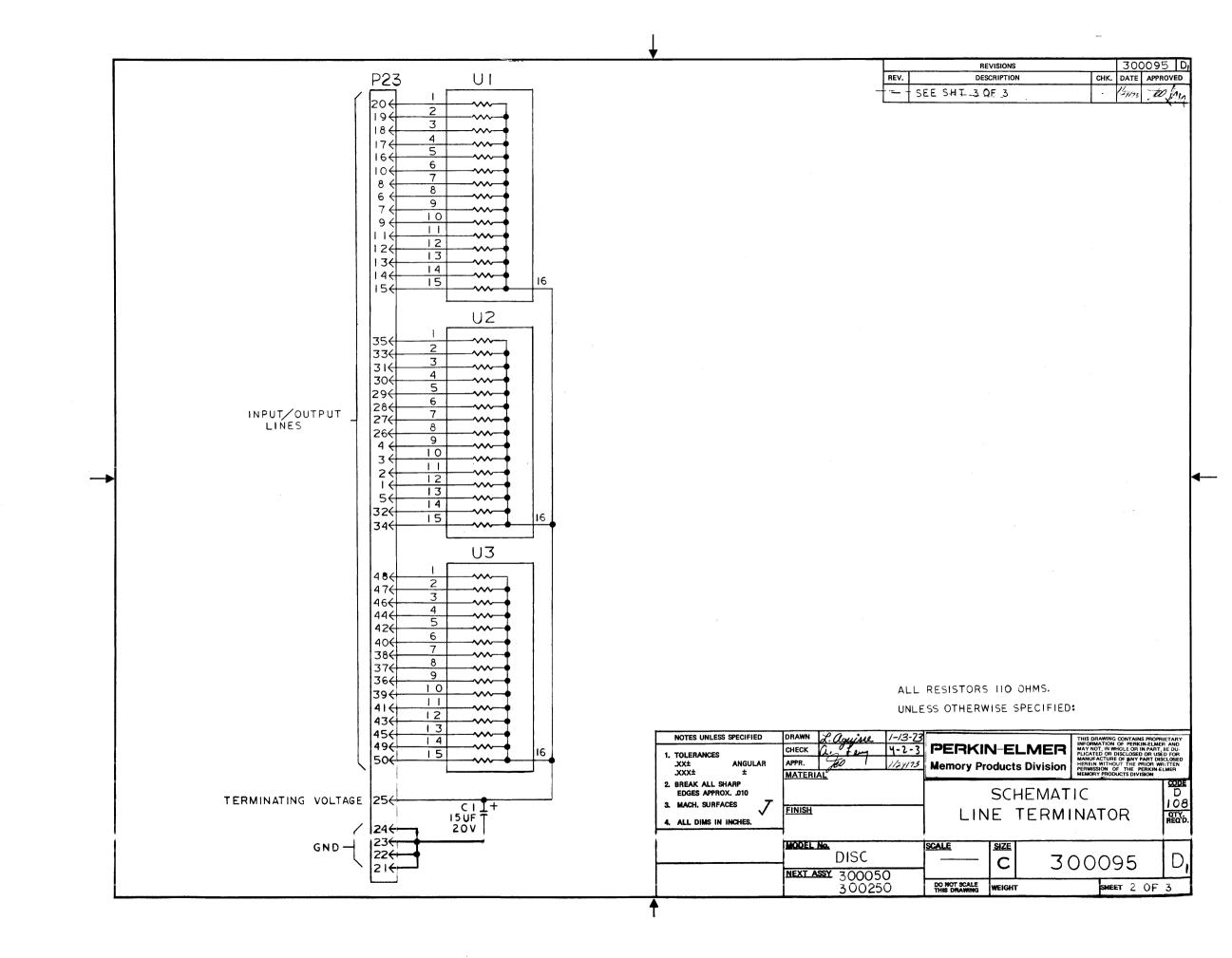
The inputs are D.C. coupled making triggering independent of input transition times. If the input signal is applied to an active high input, triggering will occur on the rising edge of the waveform. By applying the input signal to an active low input, triggering will occur on the falling edge of the waveform.

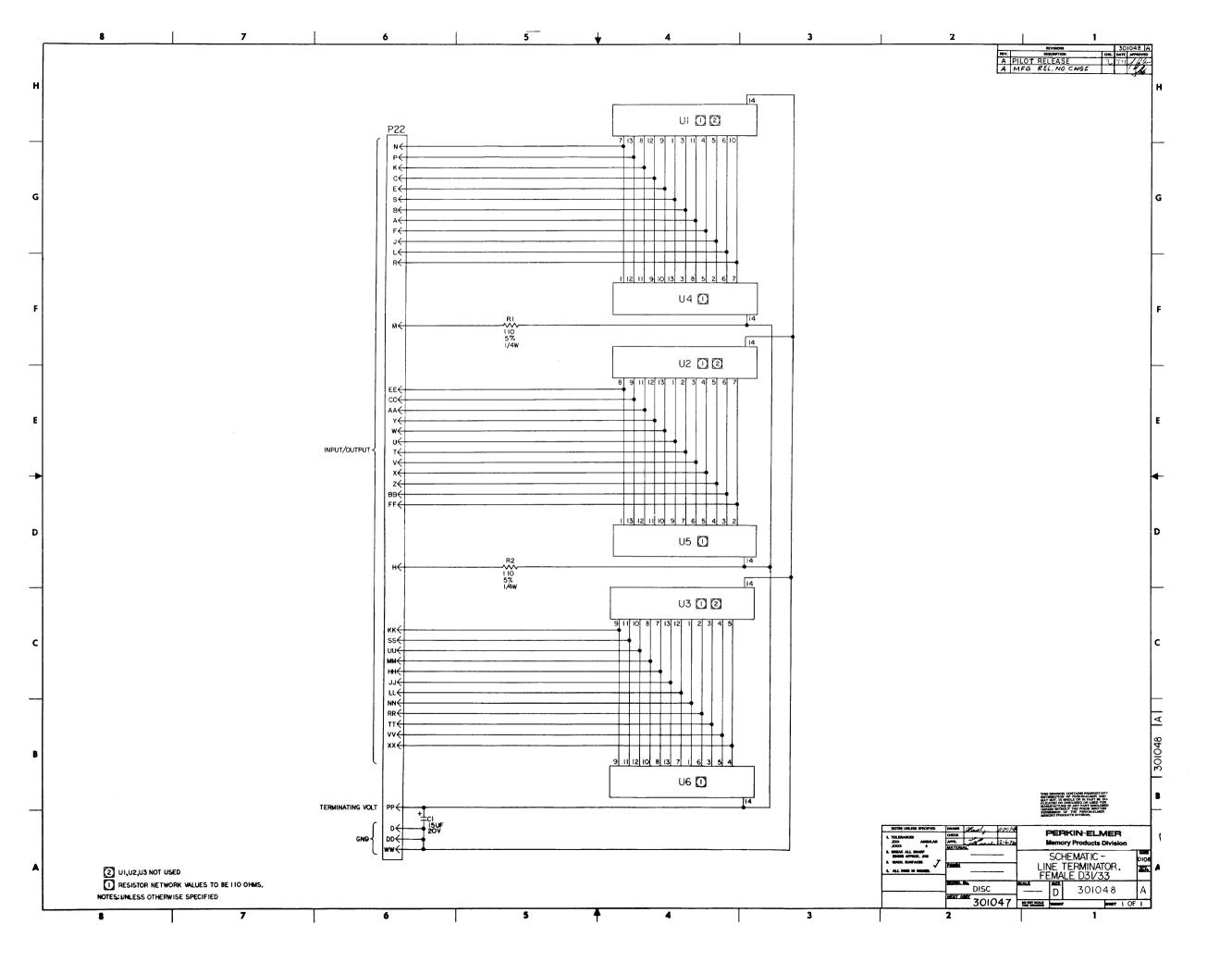


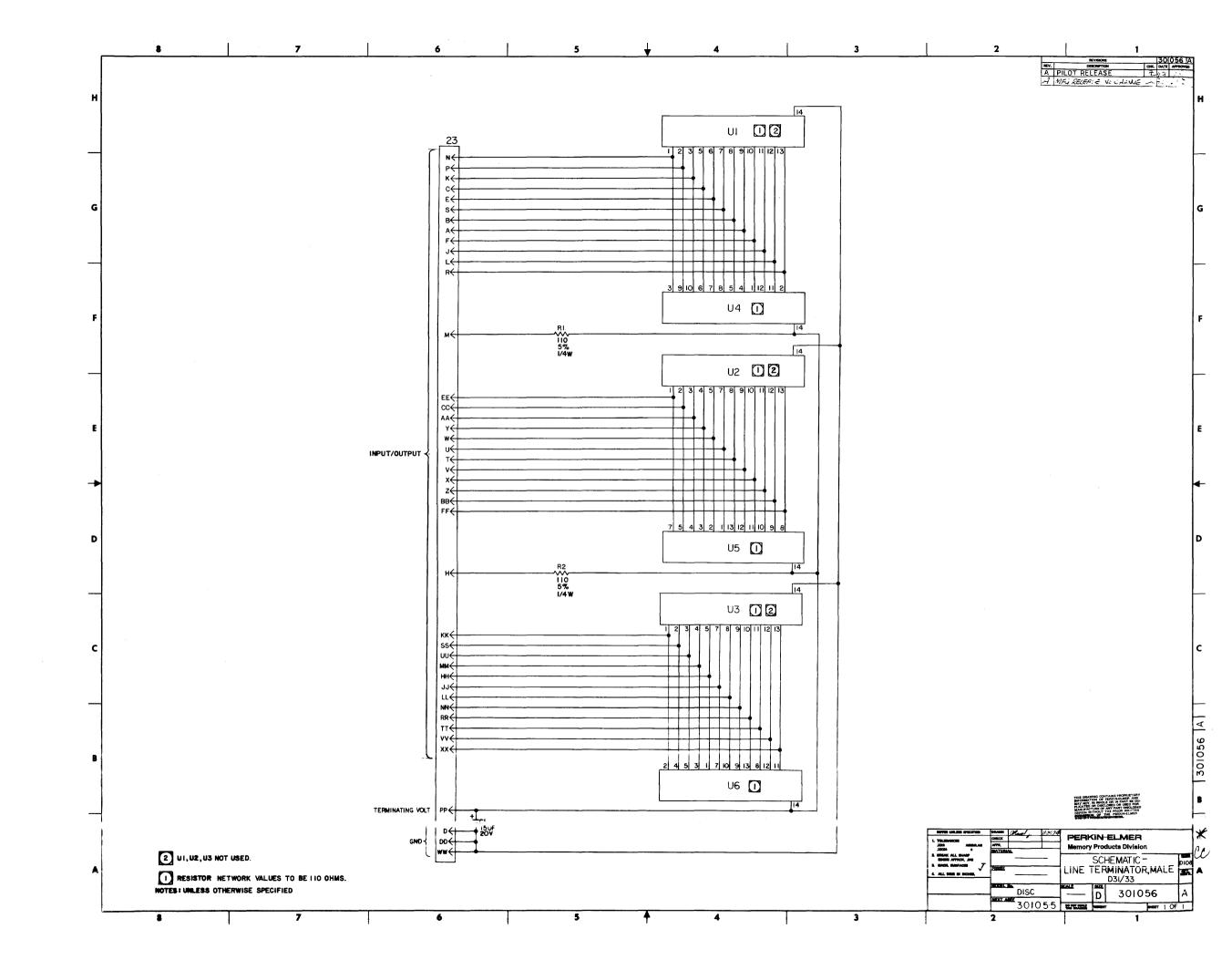
The input conditions to be satisfied for triggering are indicated by the external logic symbols.

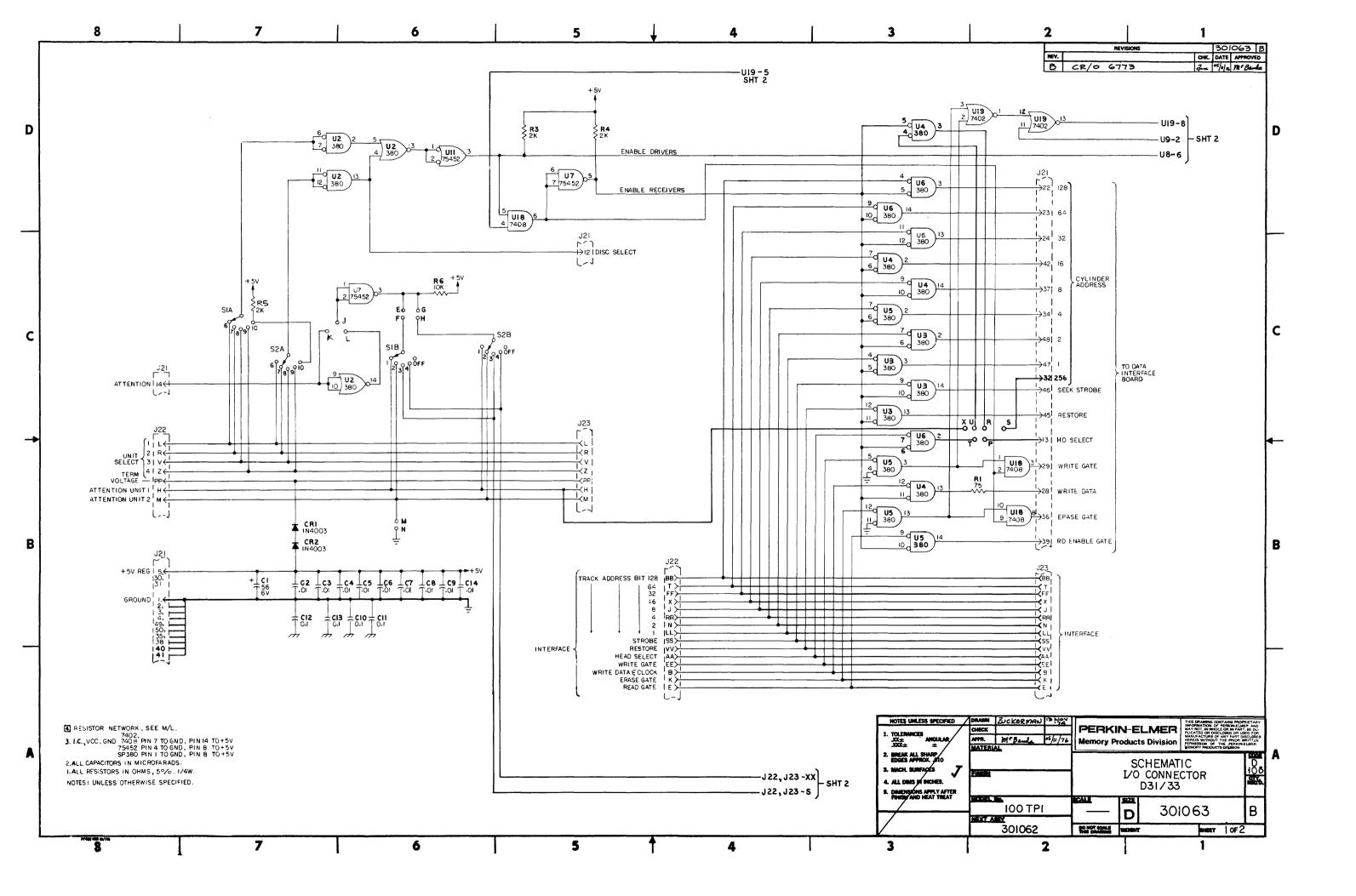
Each time the input conditions for triggering are met, the external capacitor is discharged and a new cycle is started. Successive inputs with a period shorter than the delay time retrigger the monostable resulting in a continuous true output. Retriggering may be inhibited by tying the negation (\overline{Q}) output back to an active level low input.

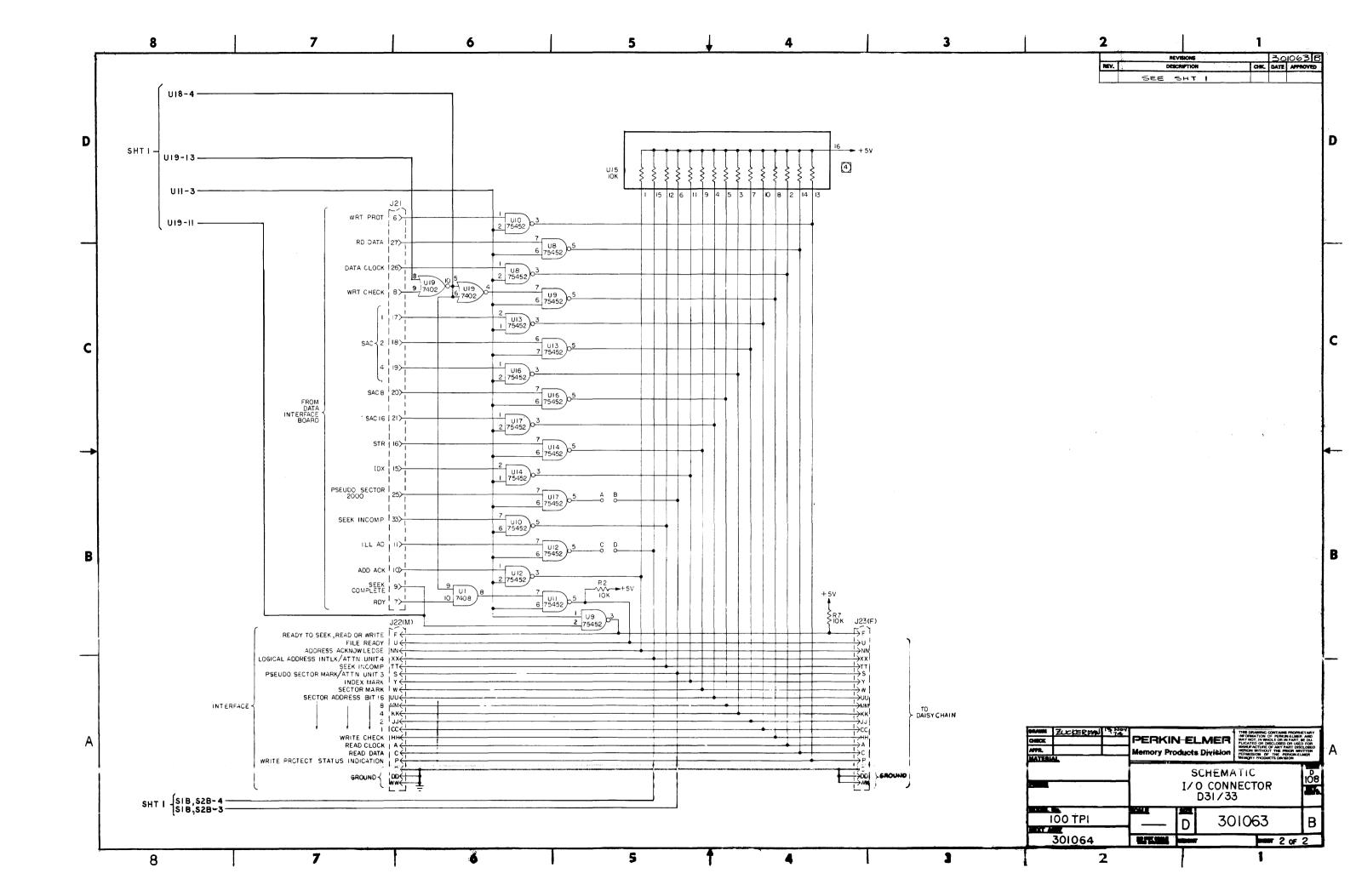
9602 has an active low reset input (\overline{CD}) which allows the one shot to be reset.

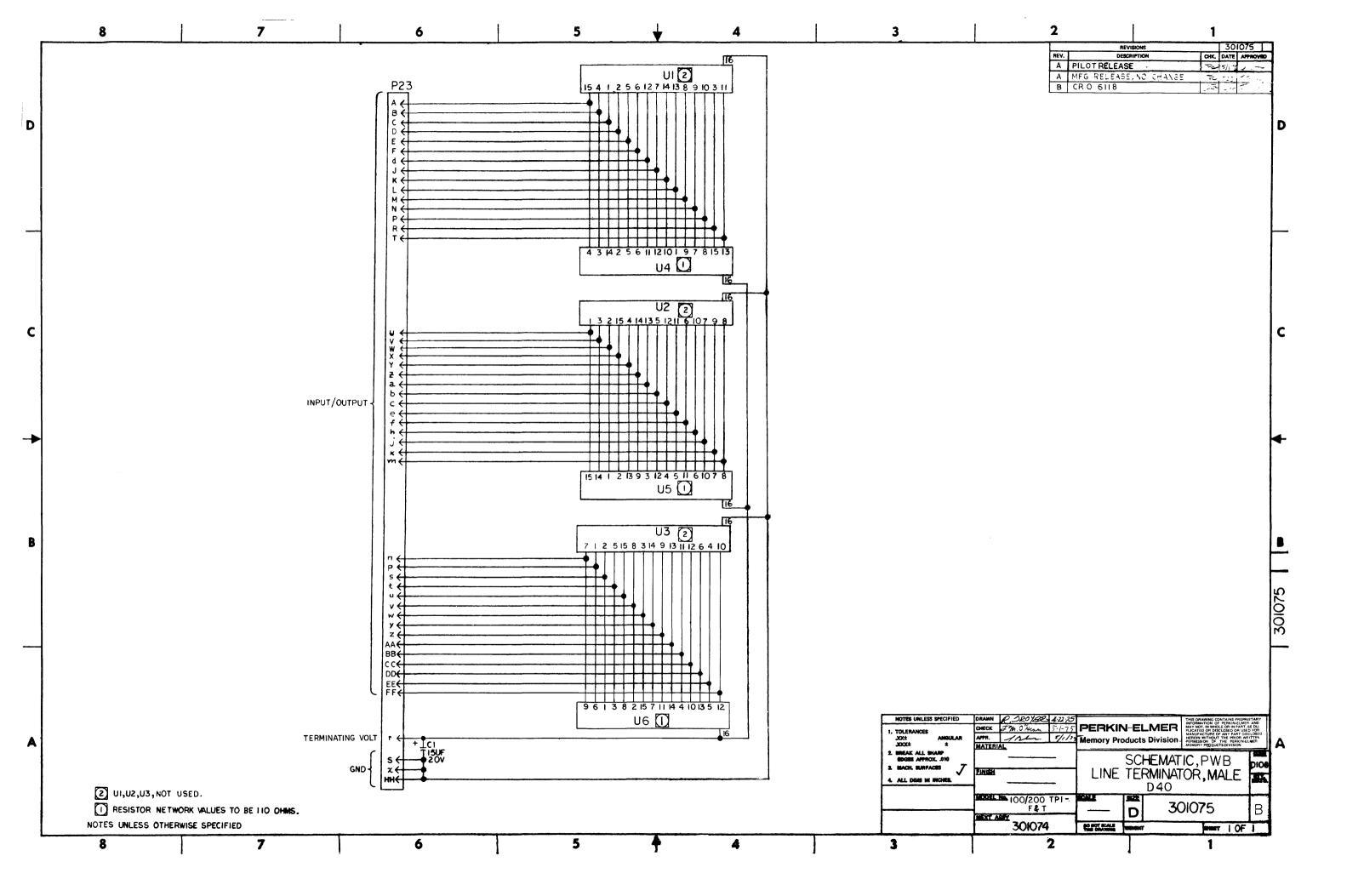


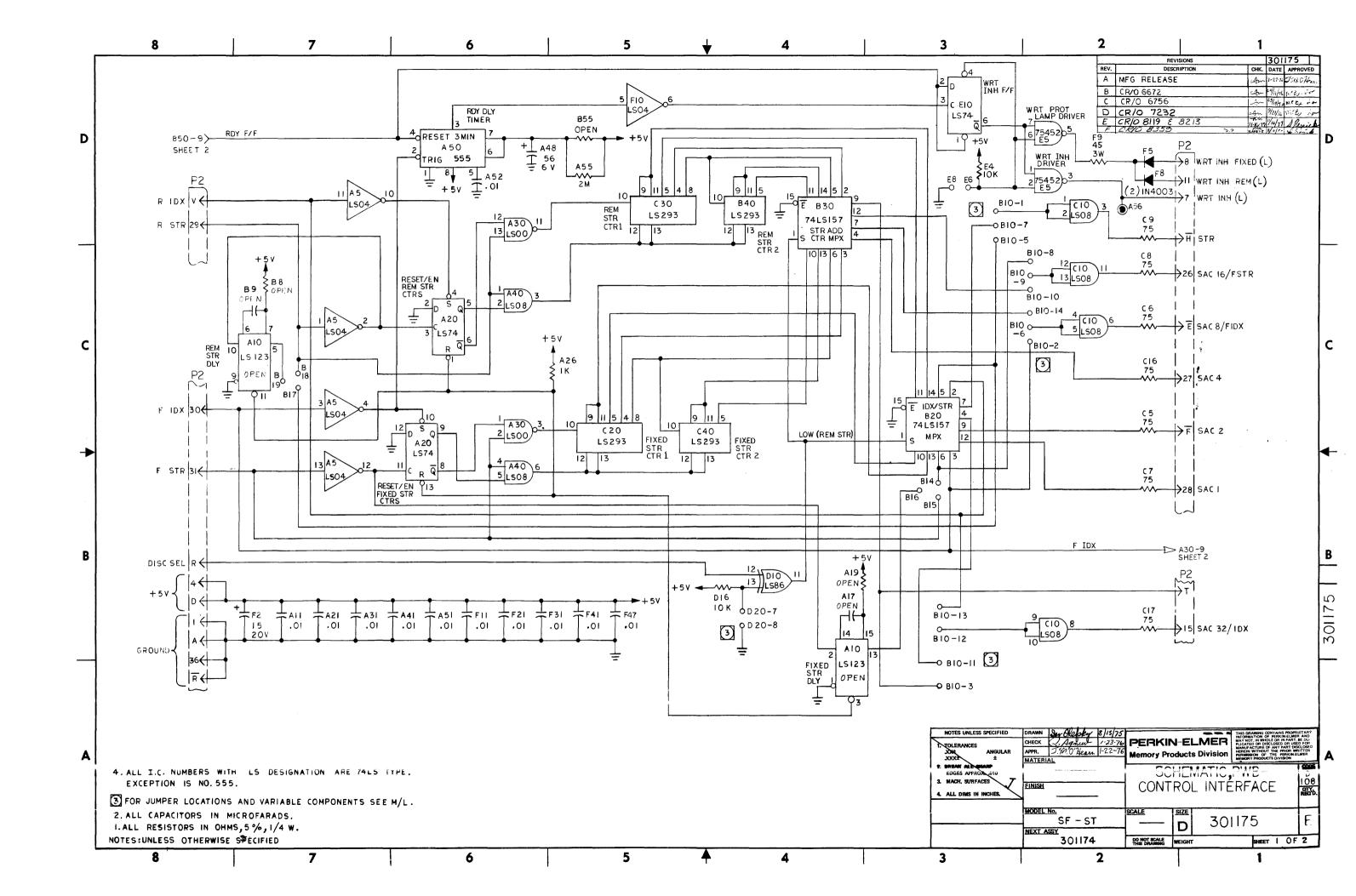


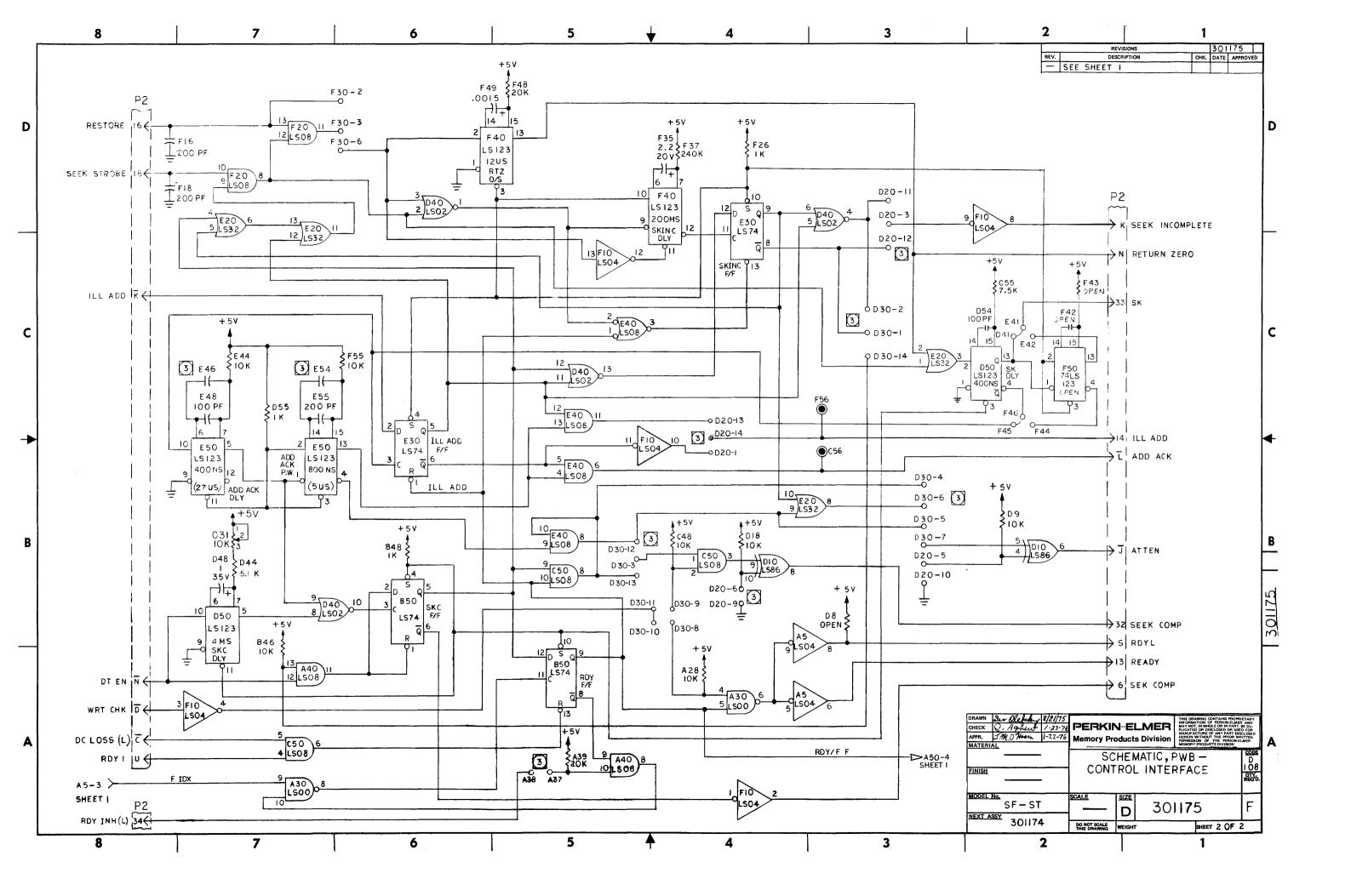


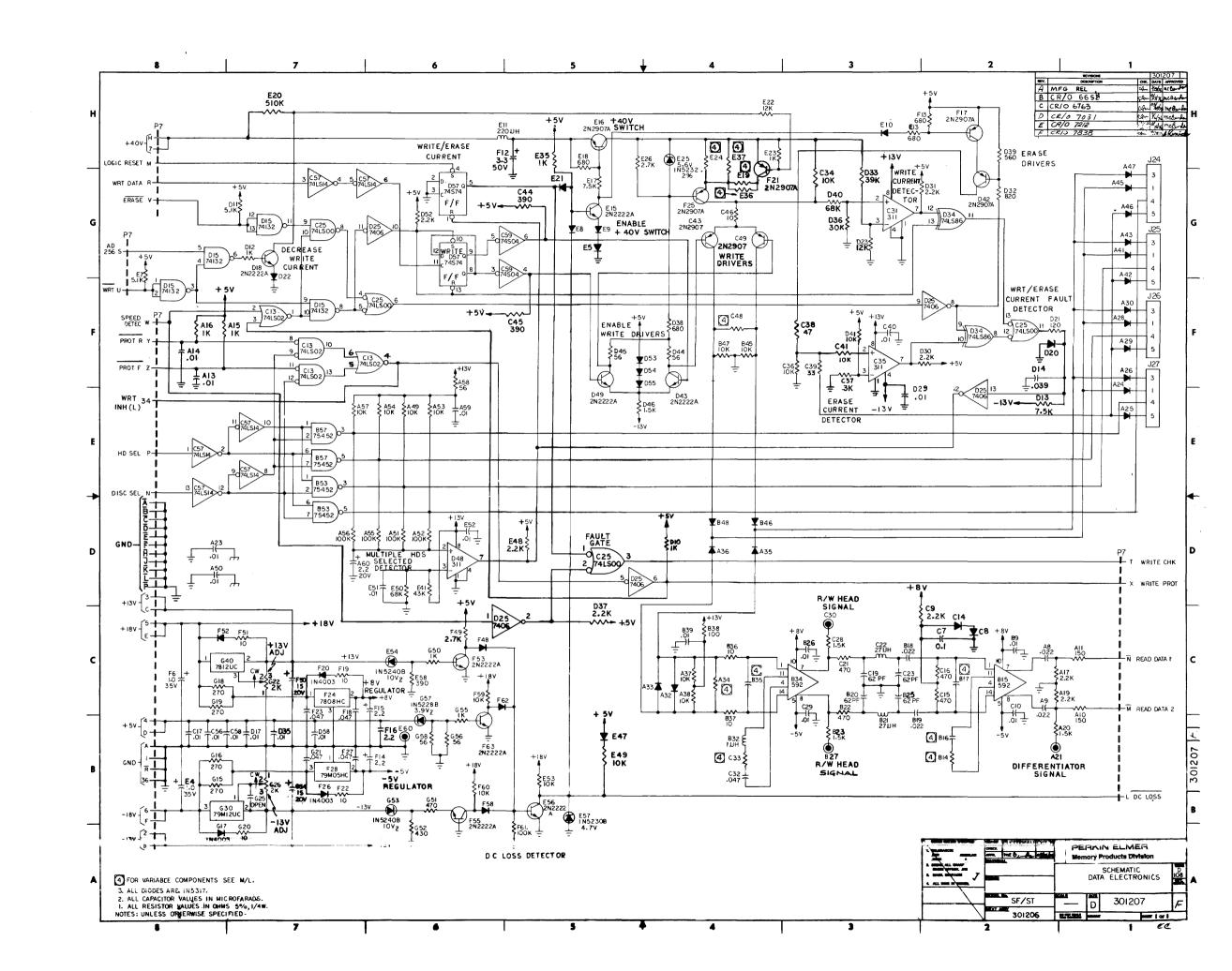


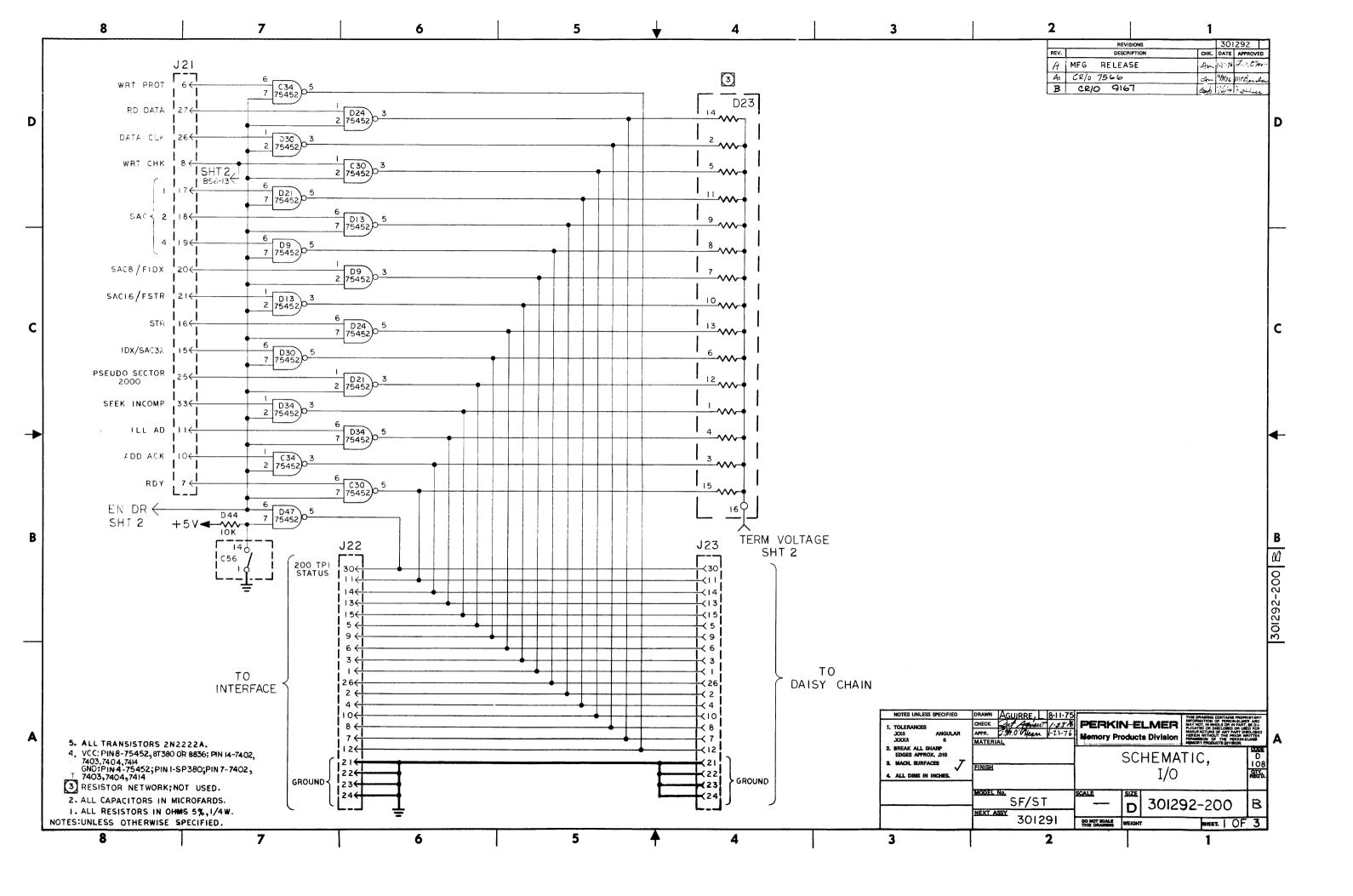


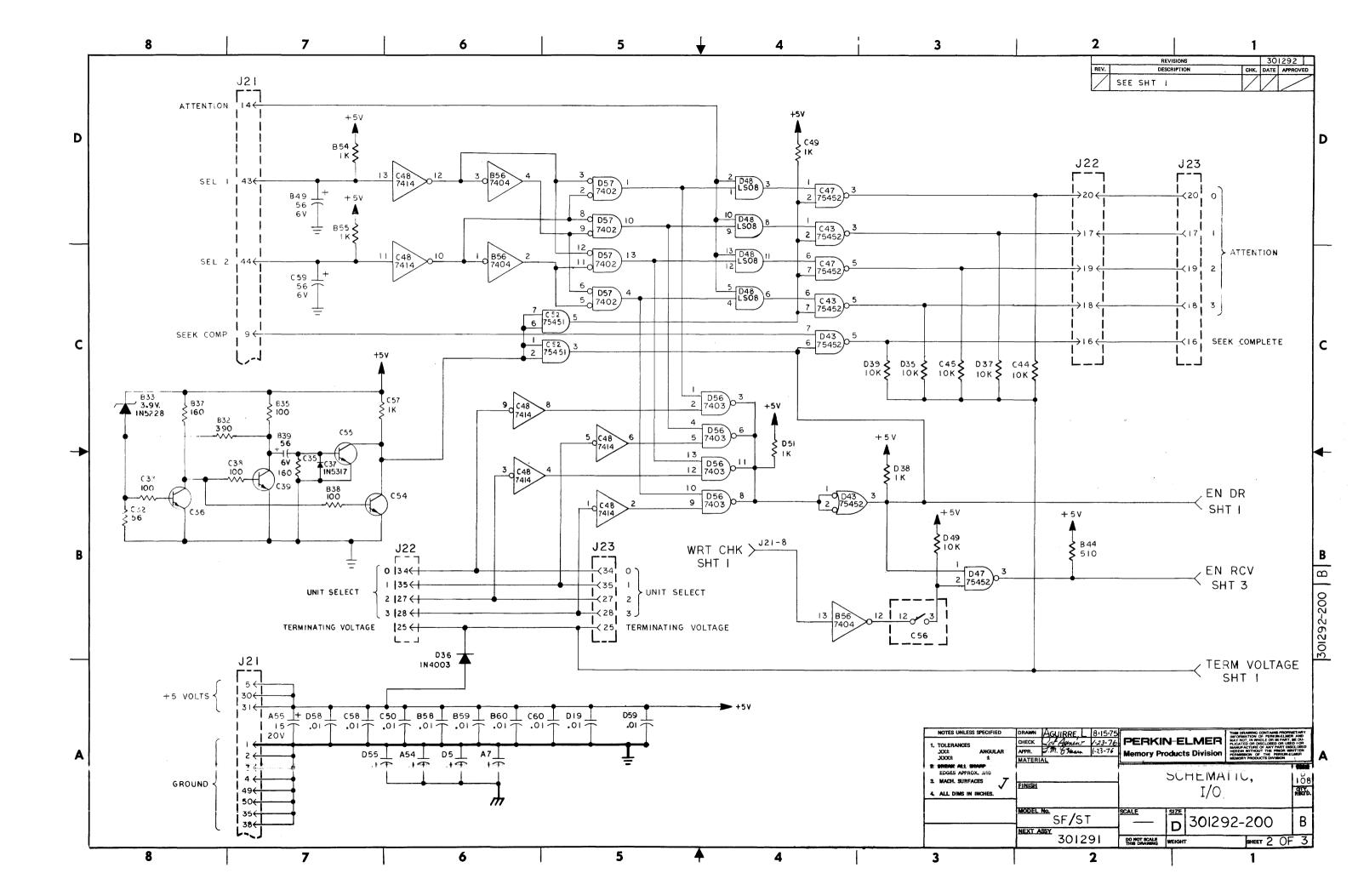


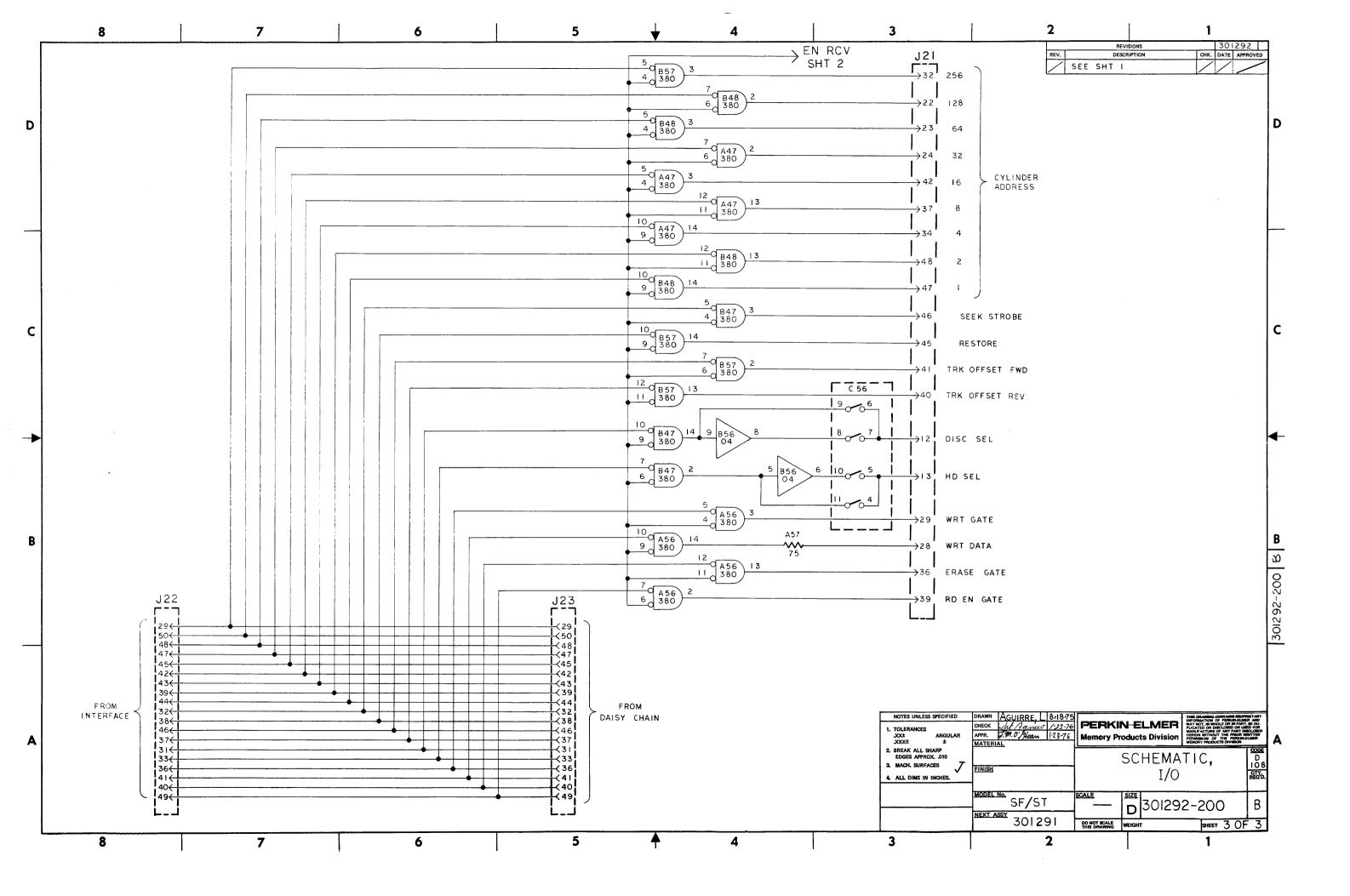


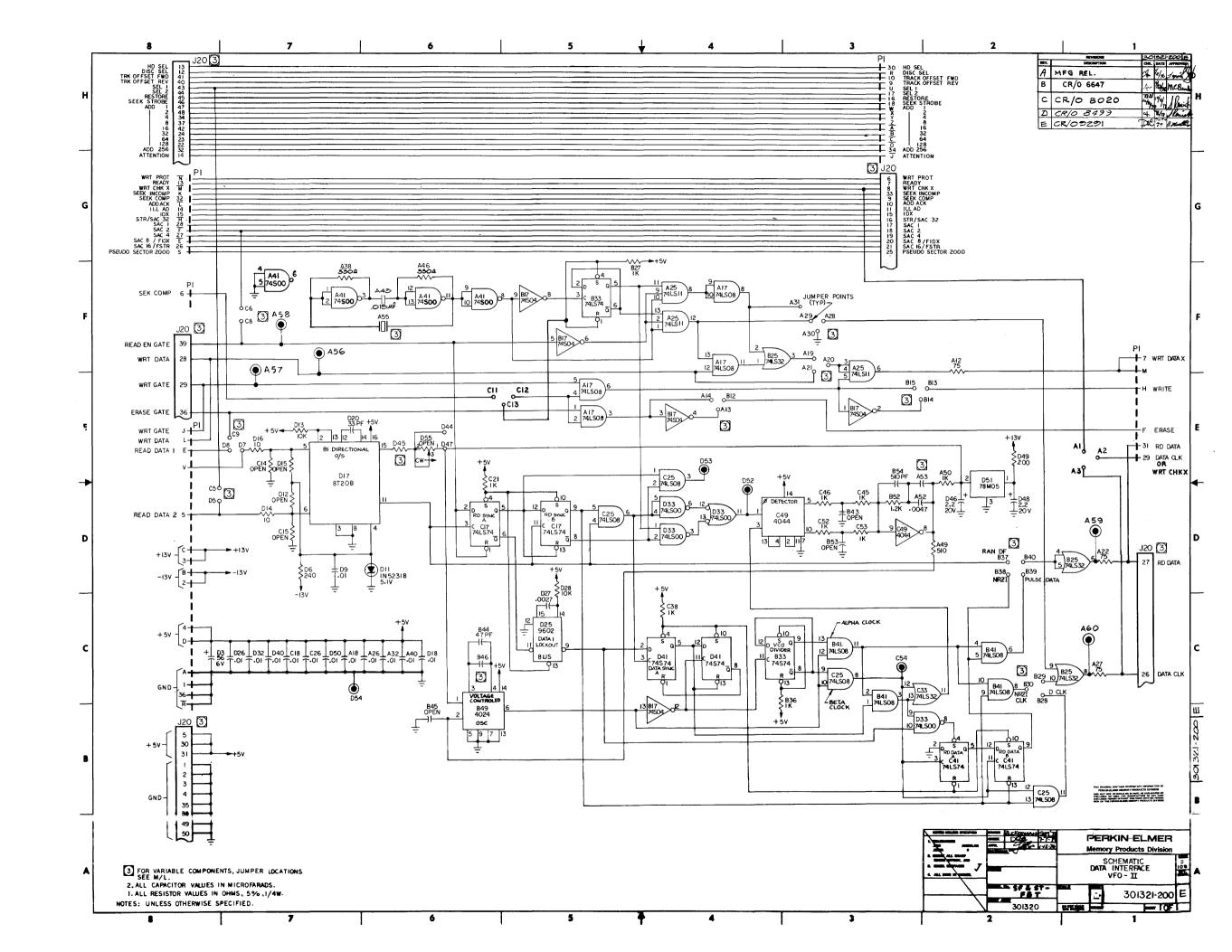


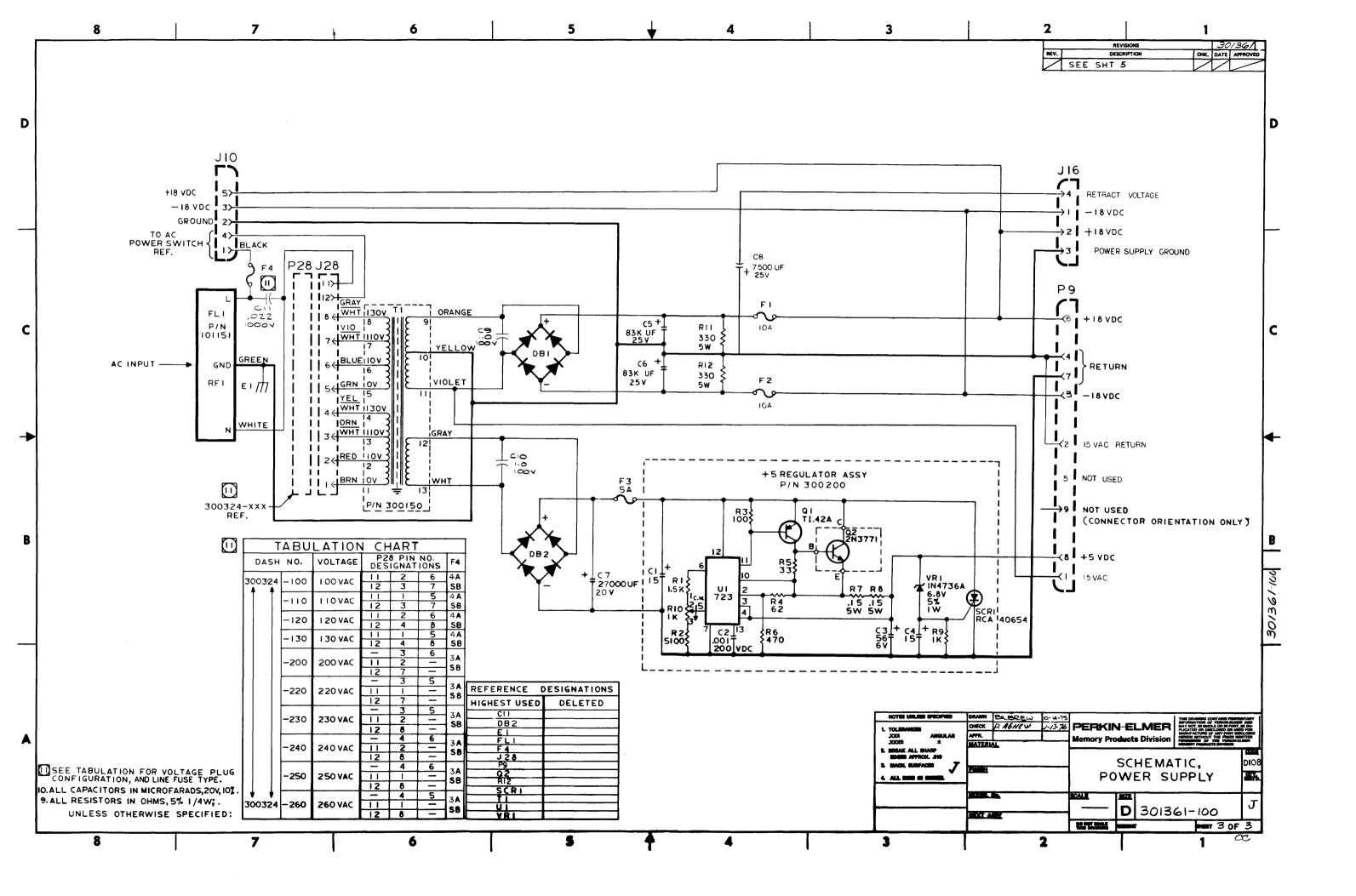


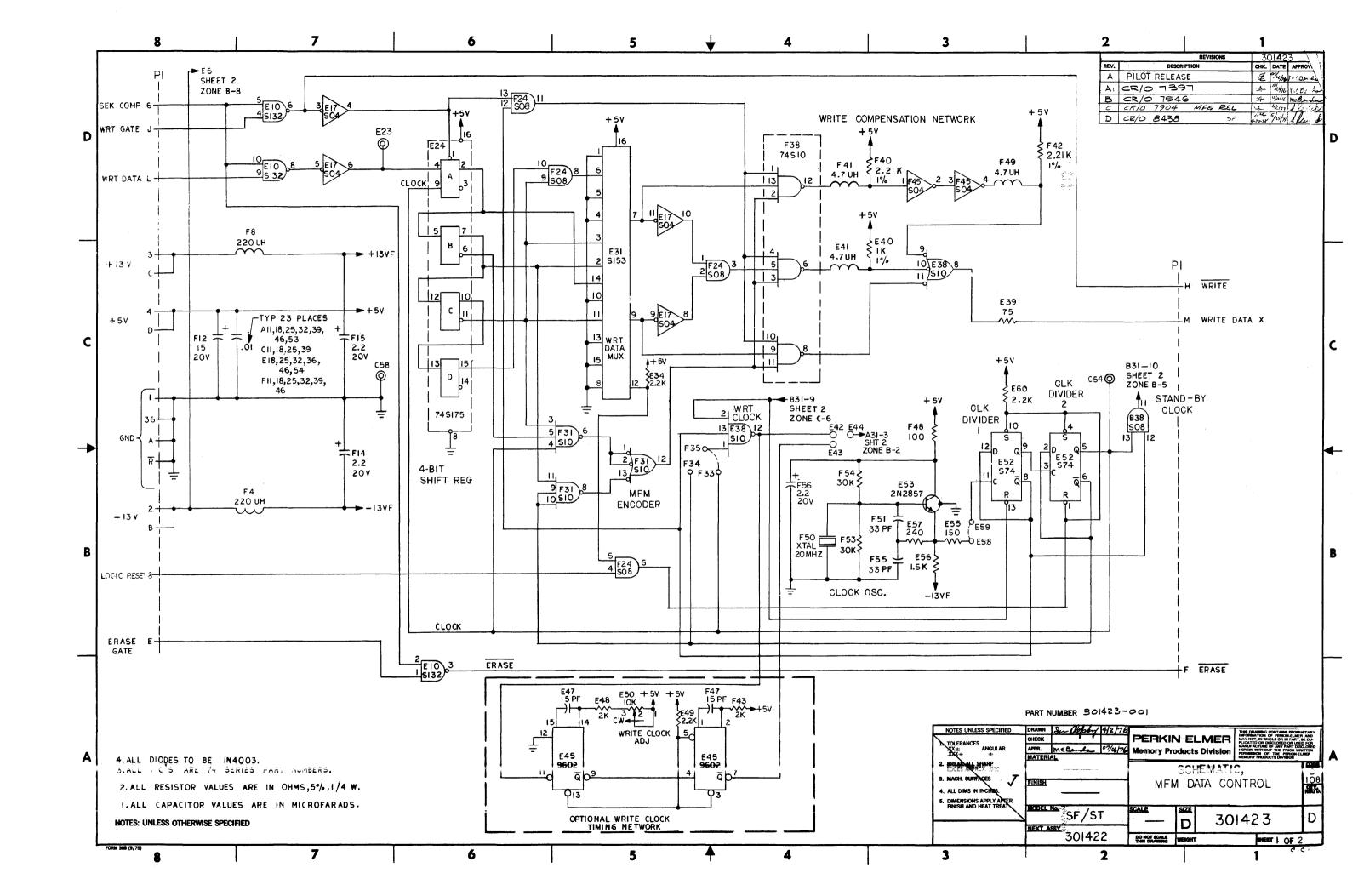


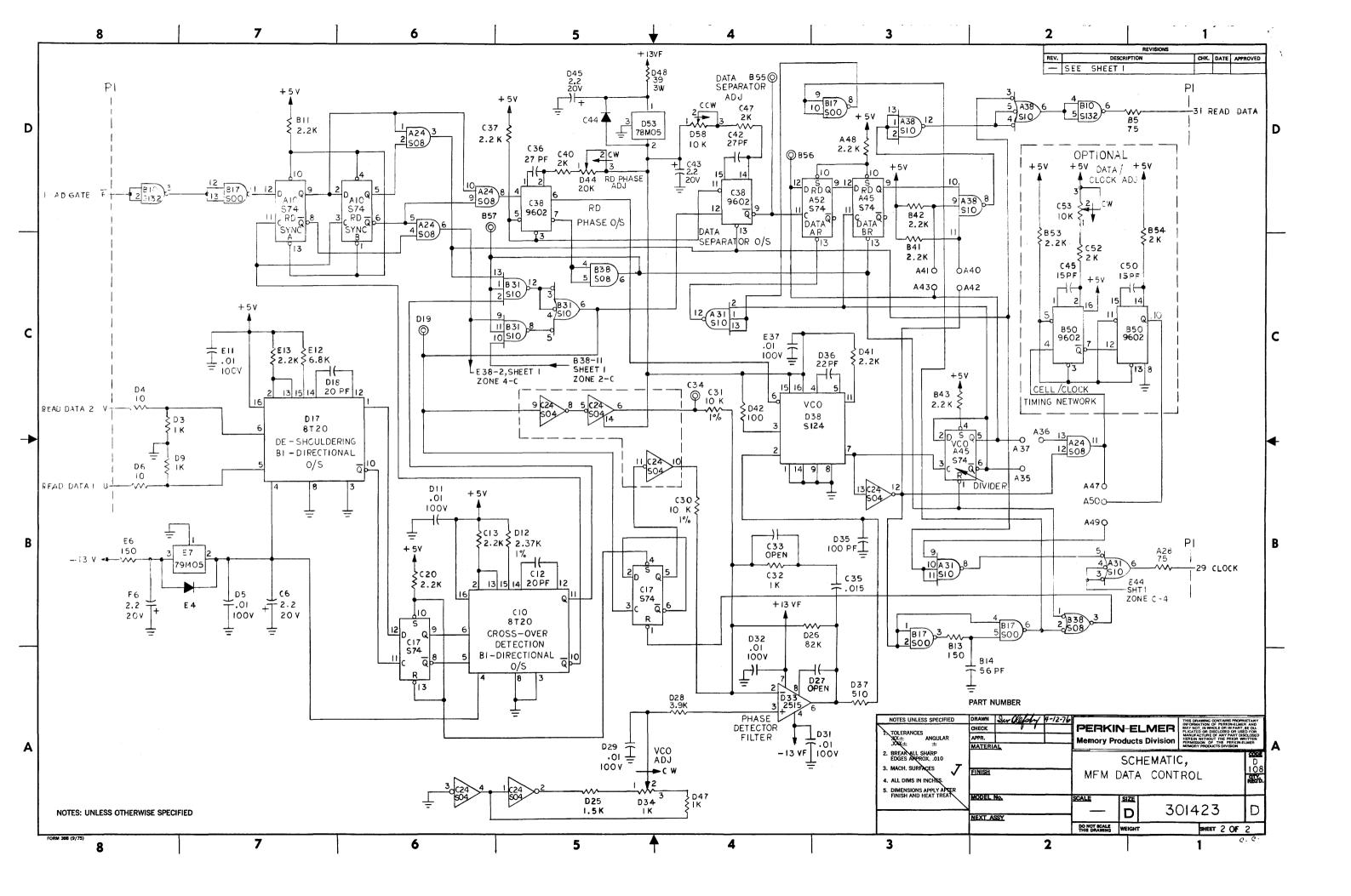


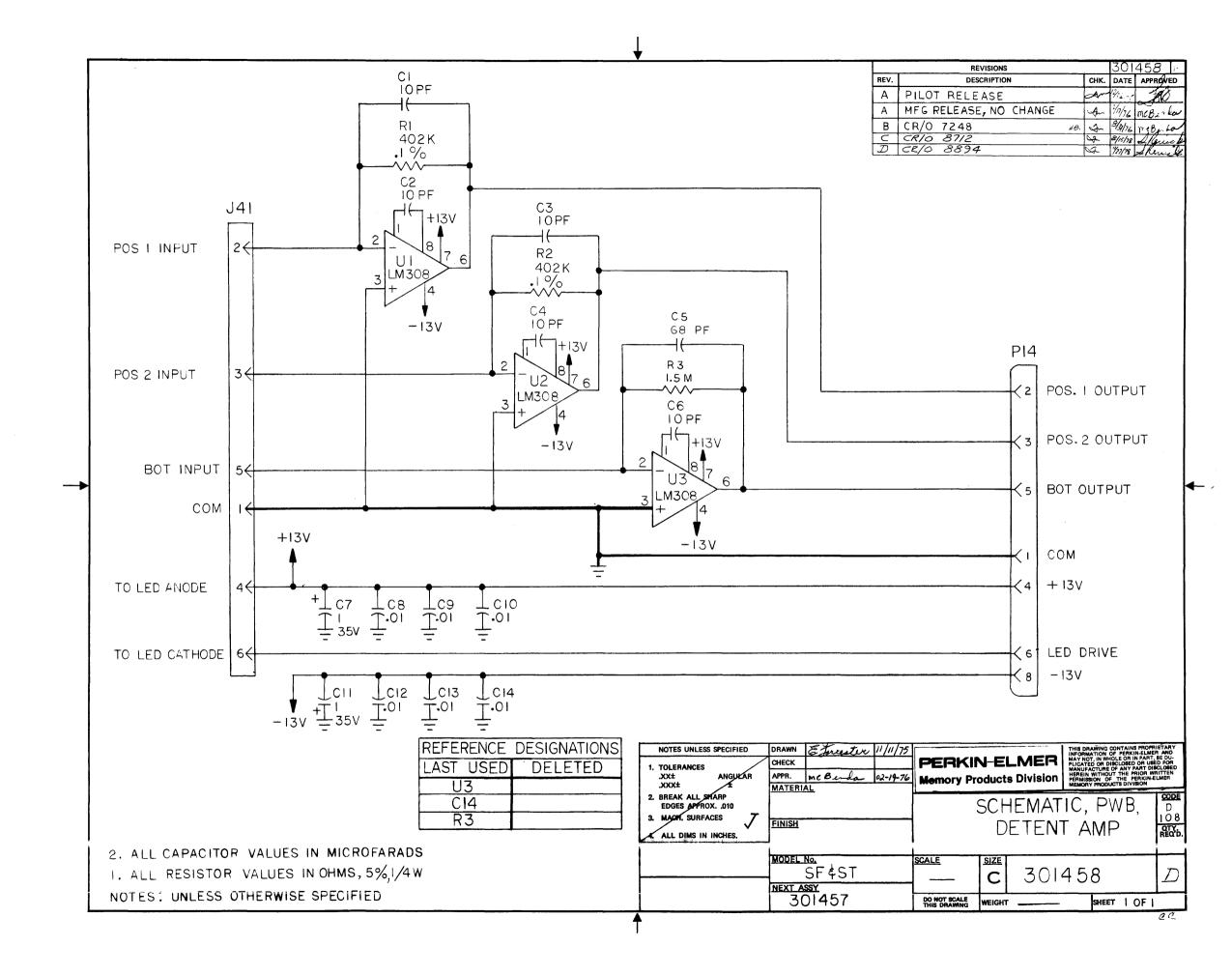


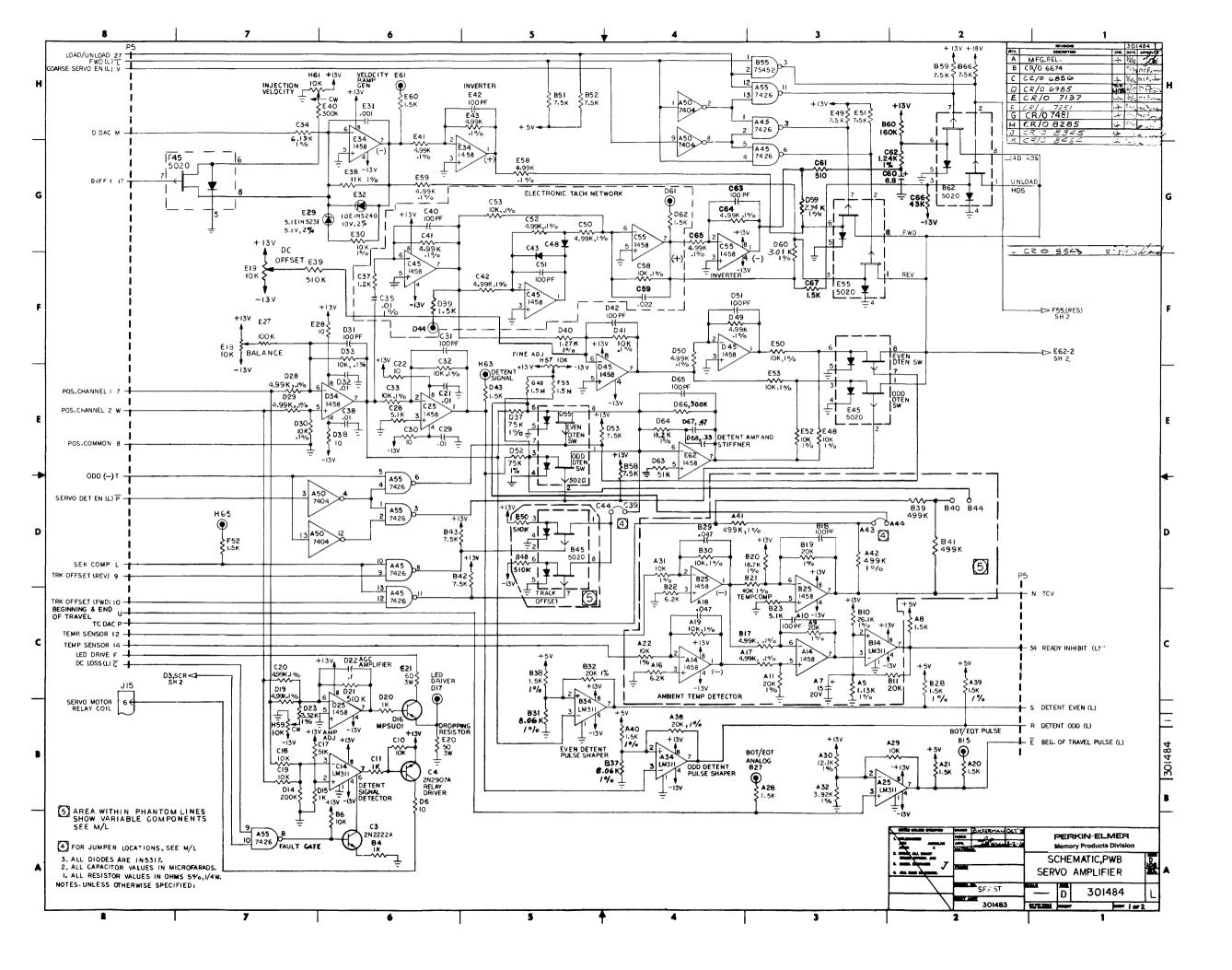


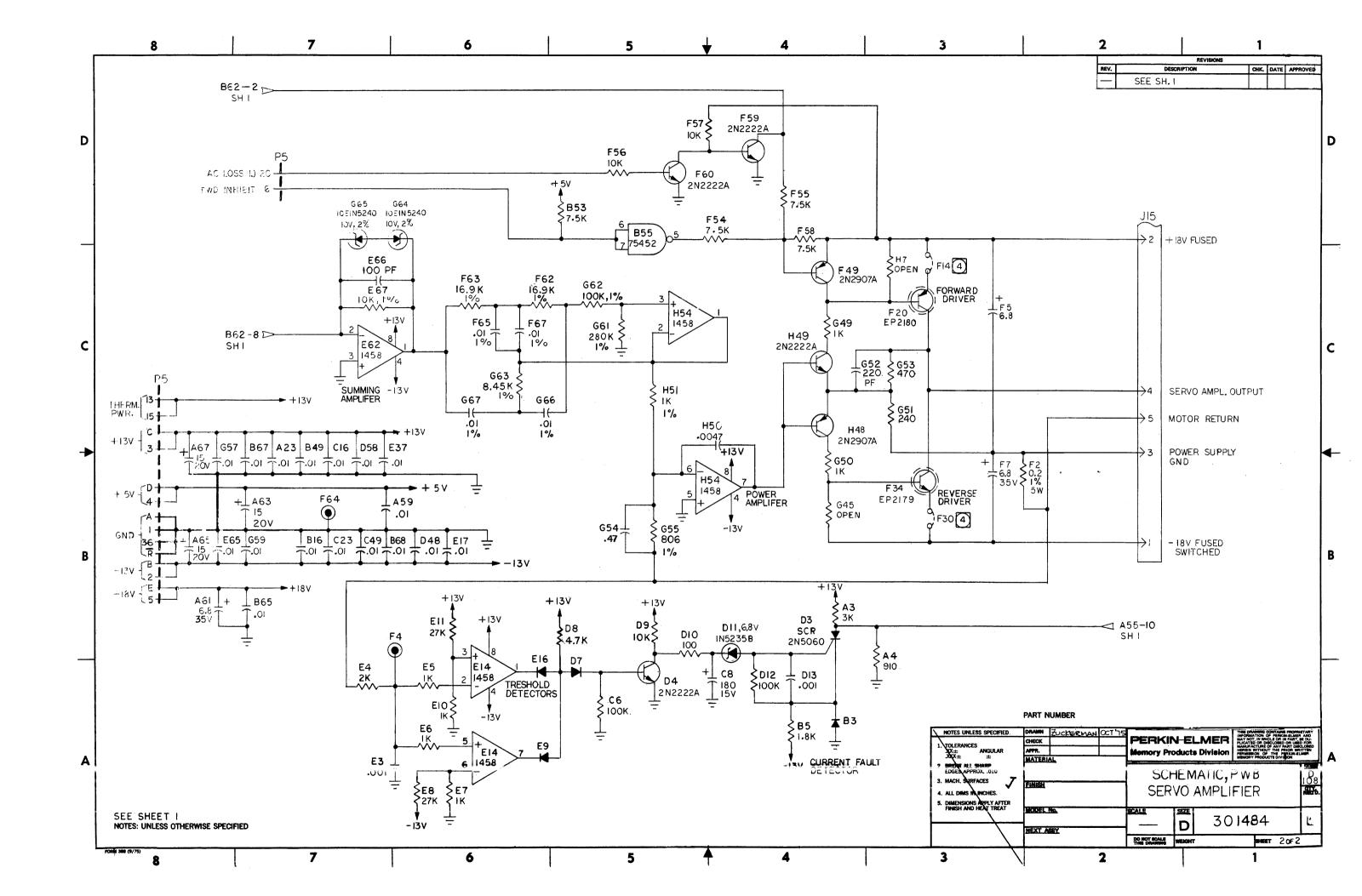


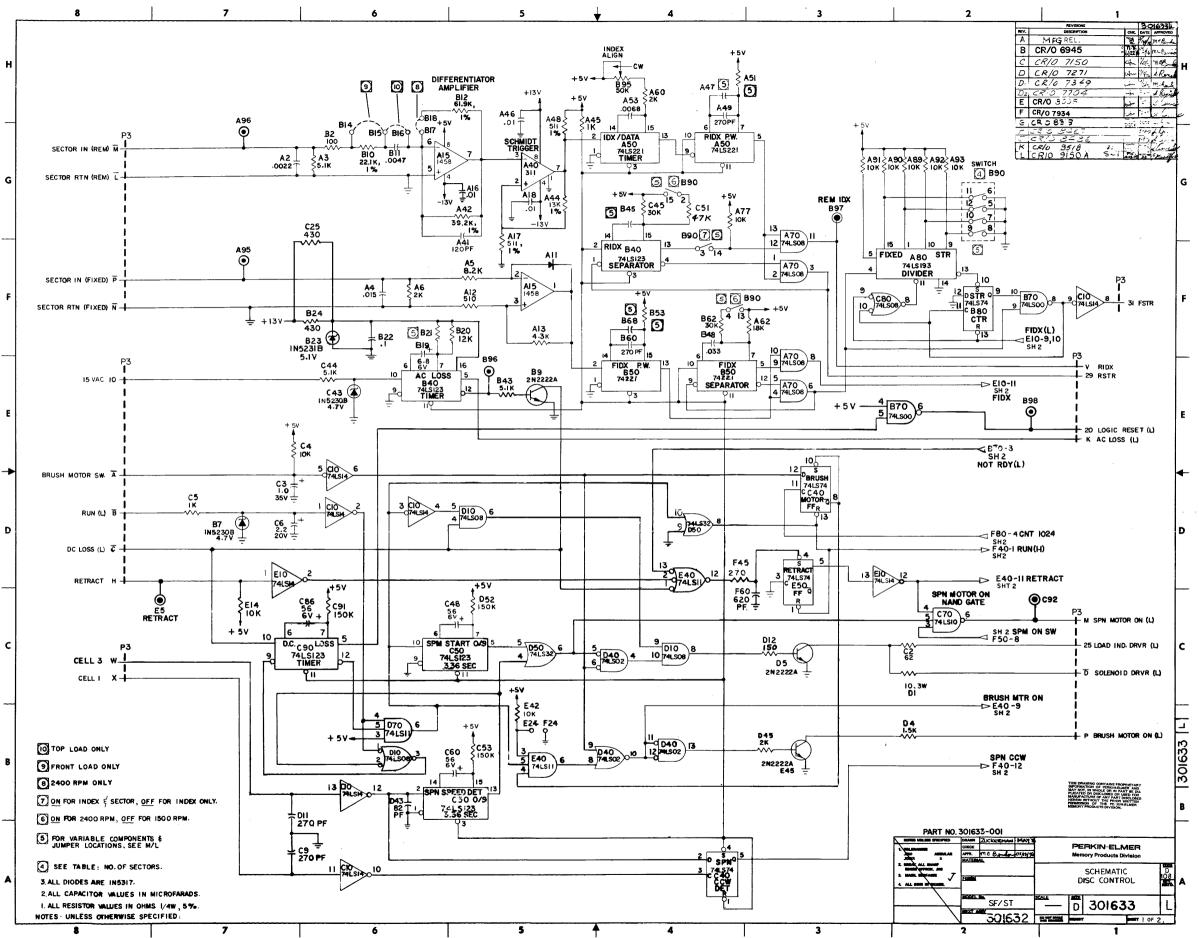


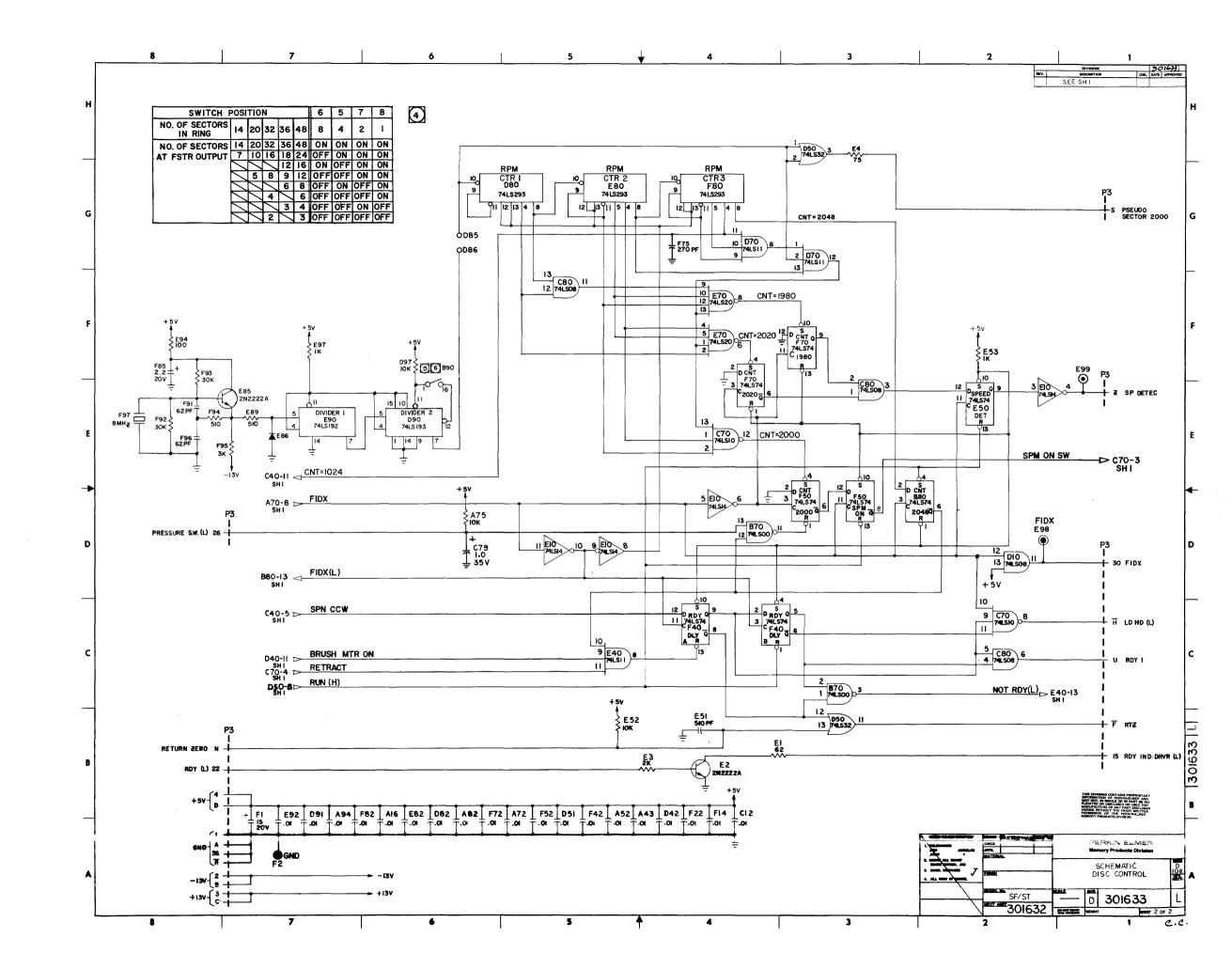


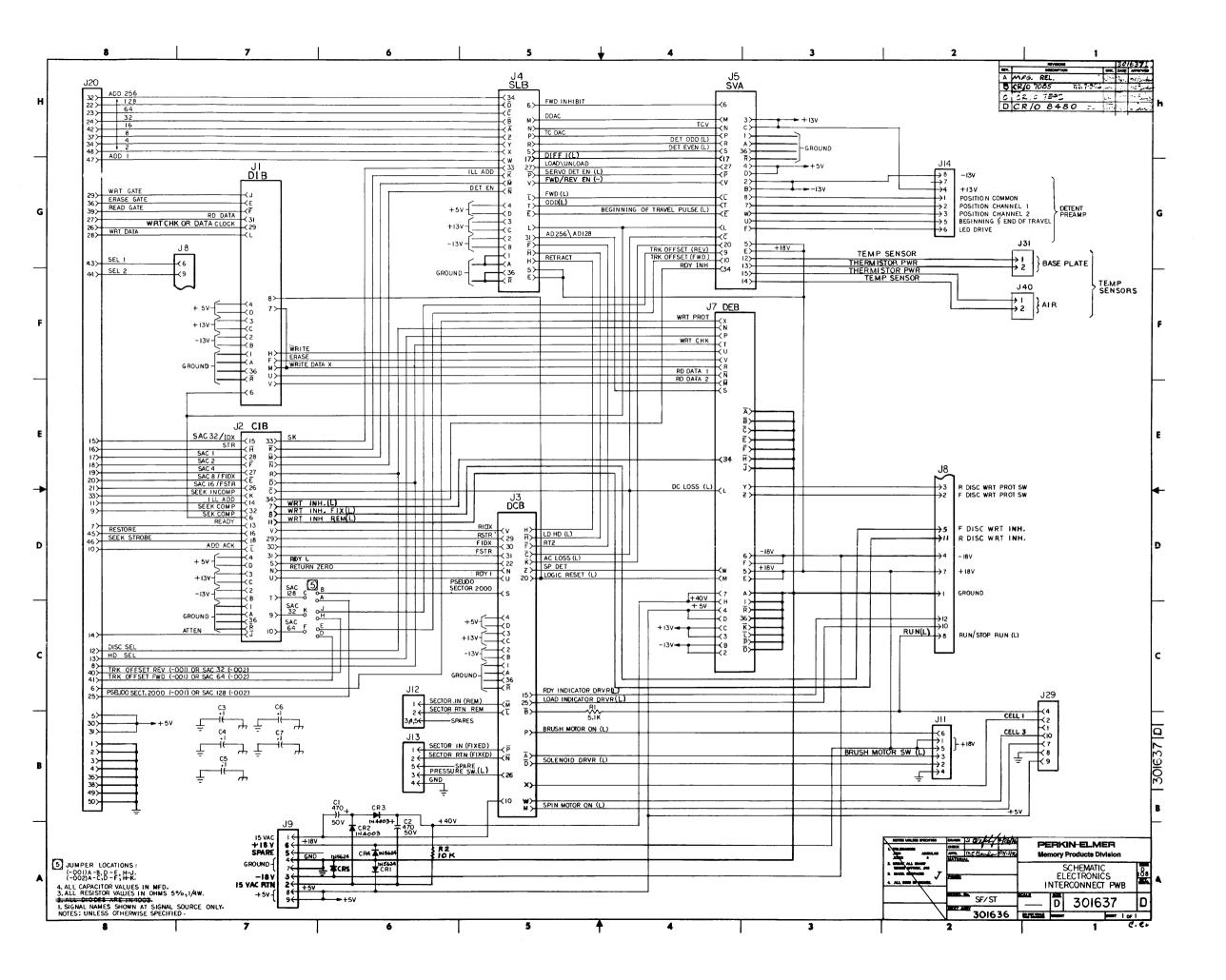


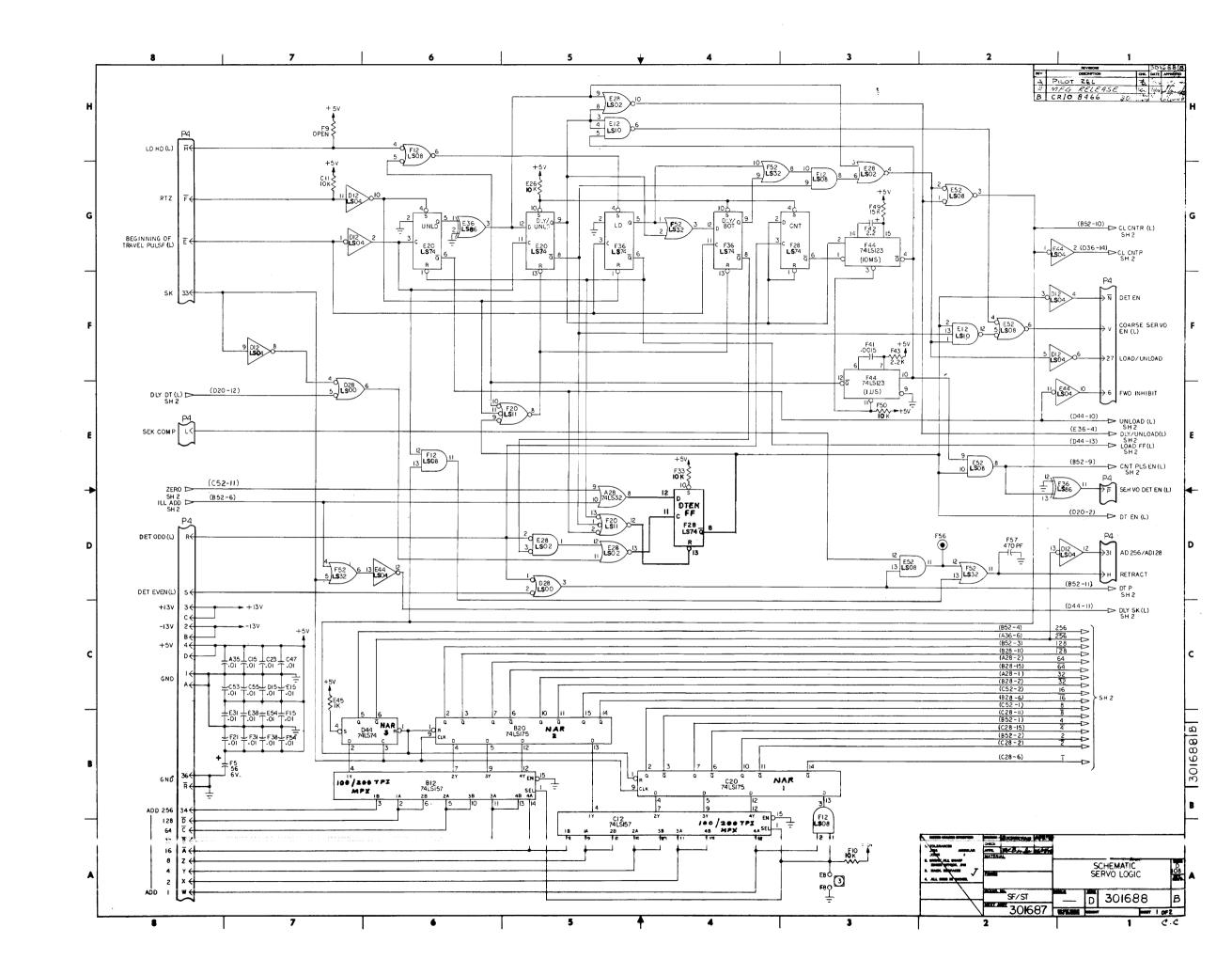


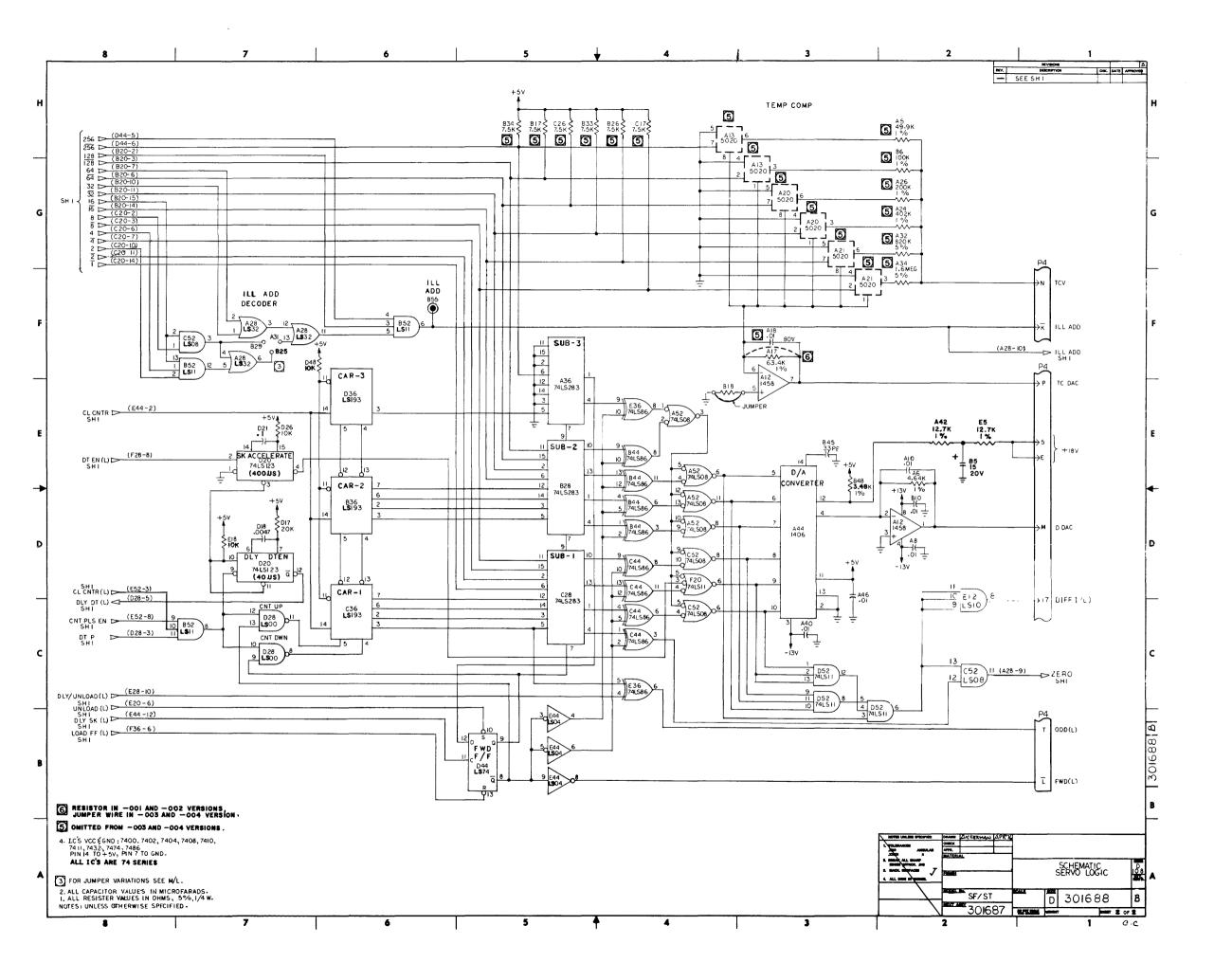


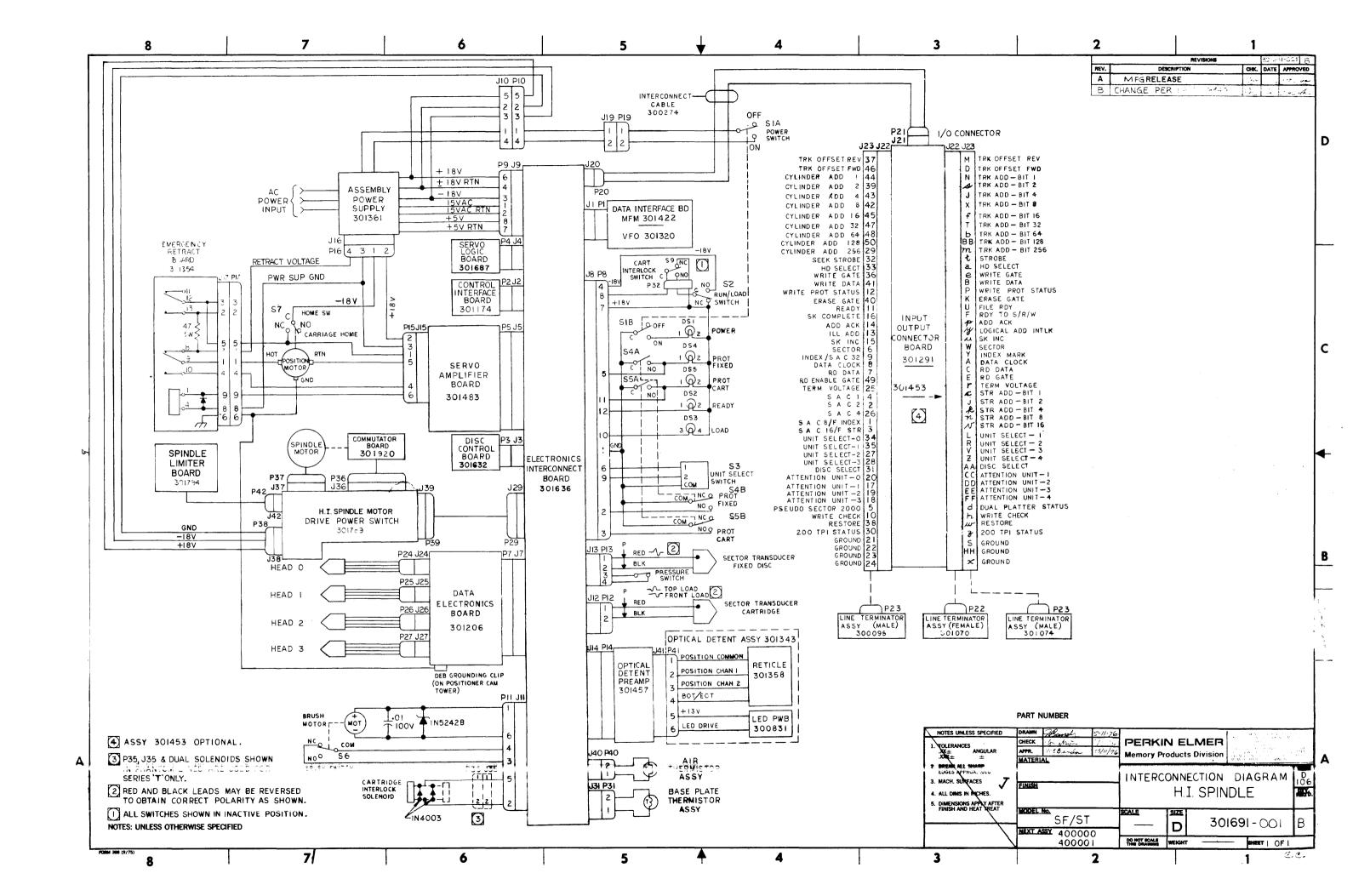


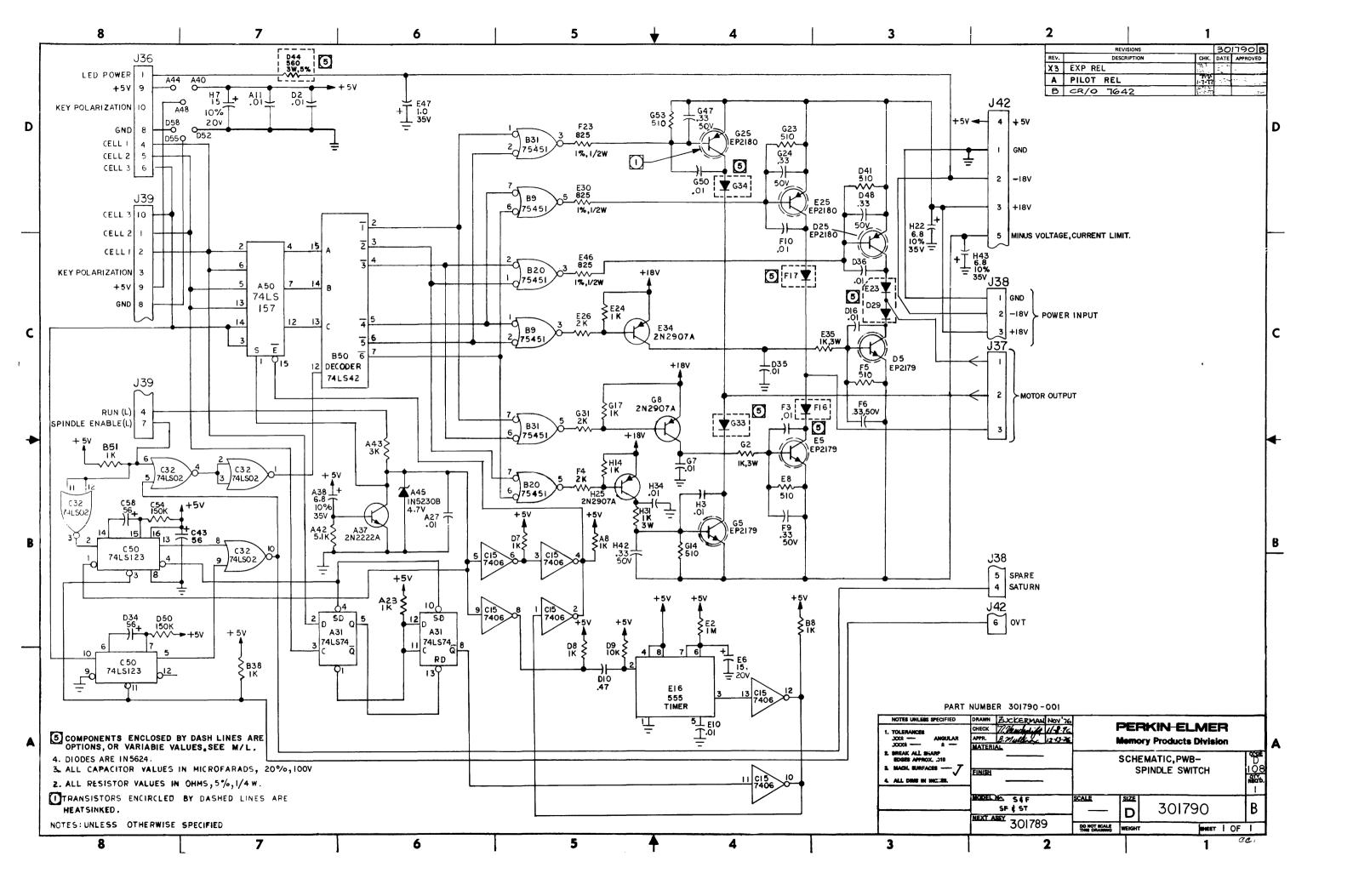


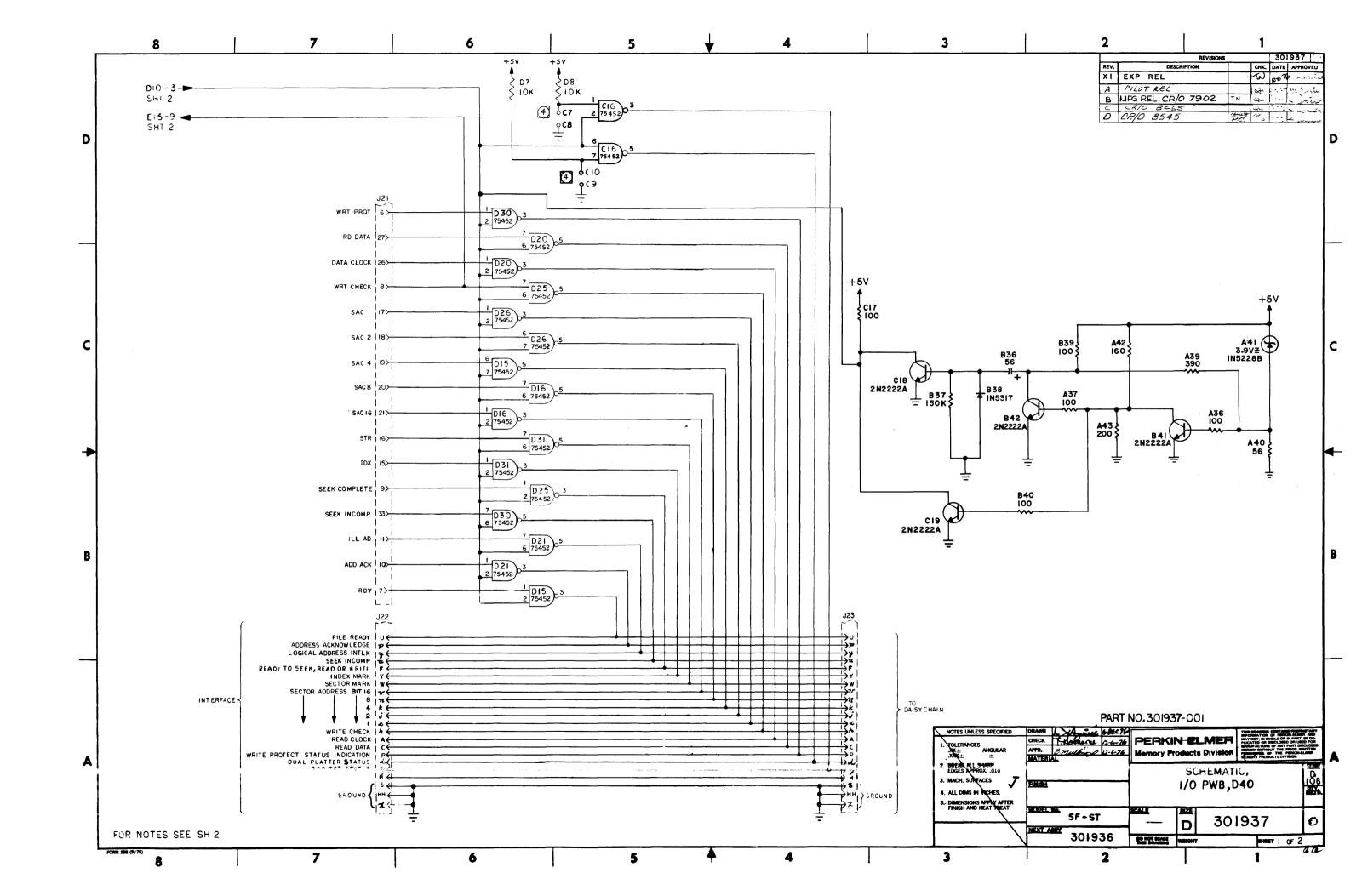


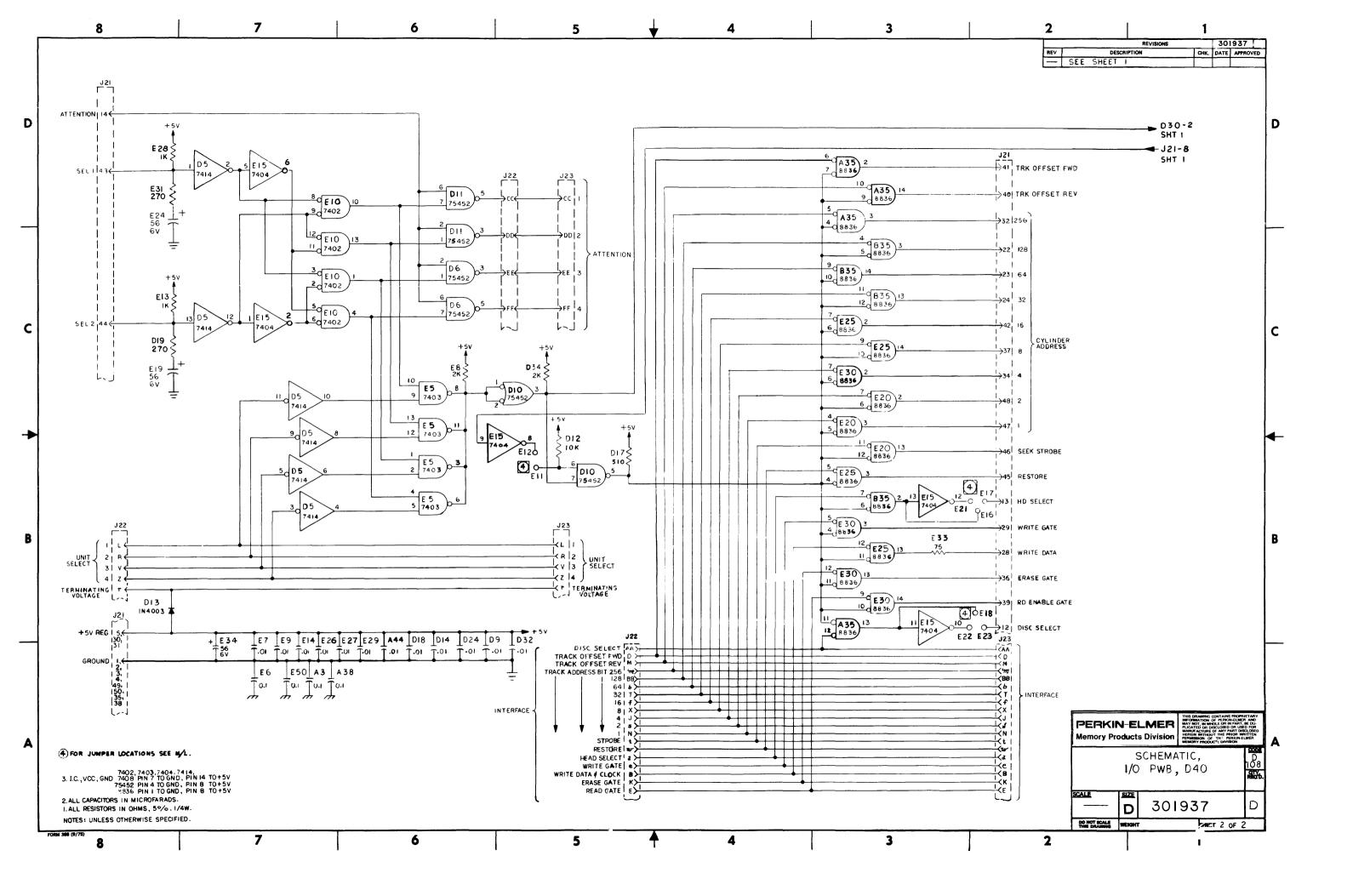


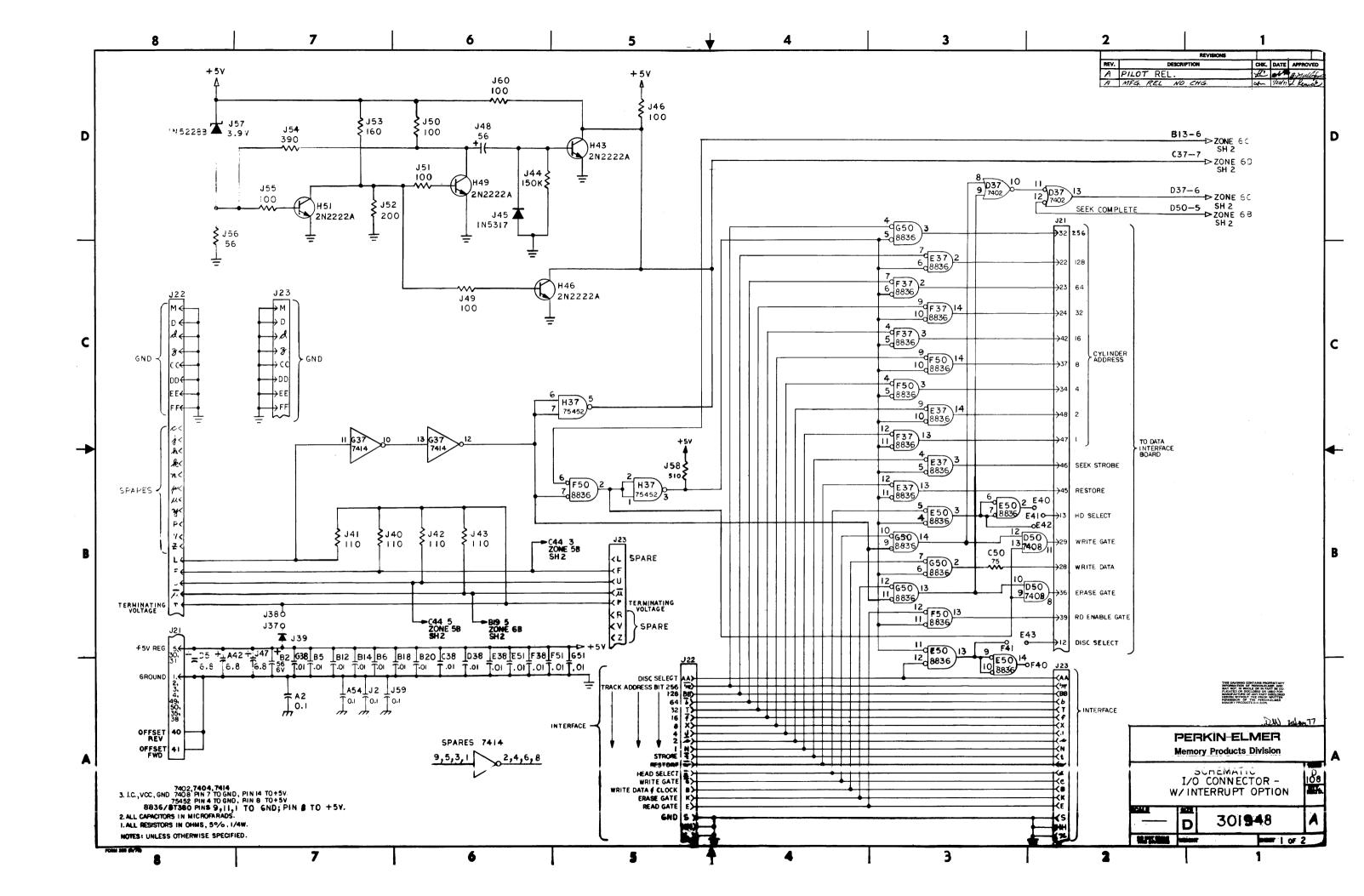


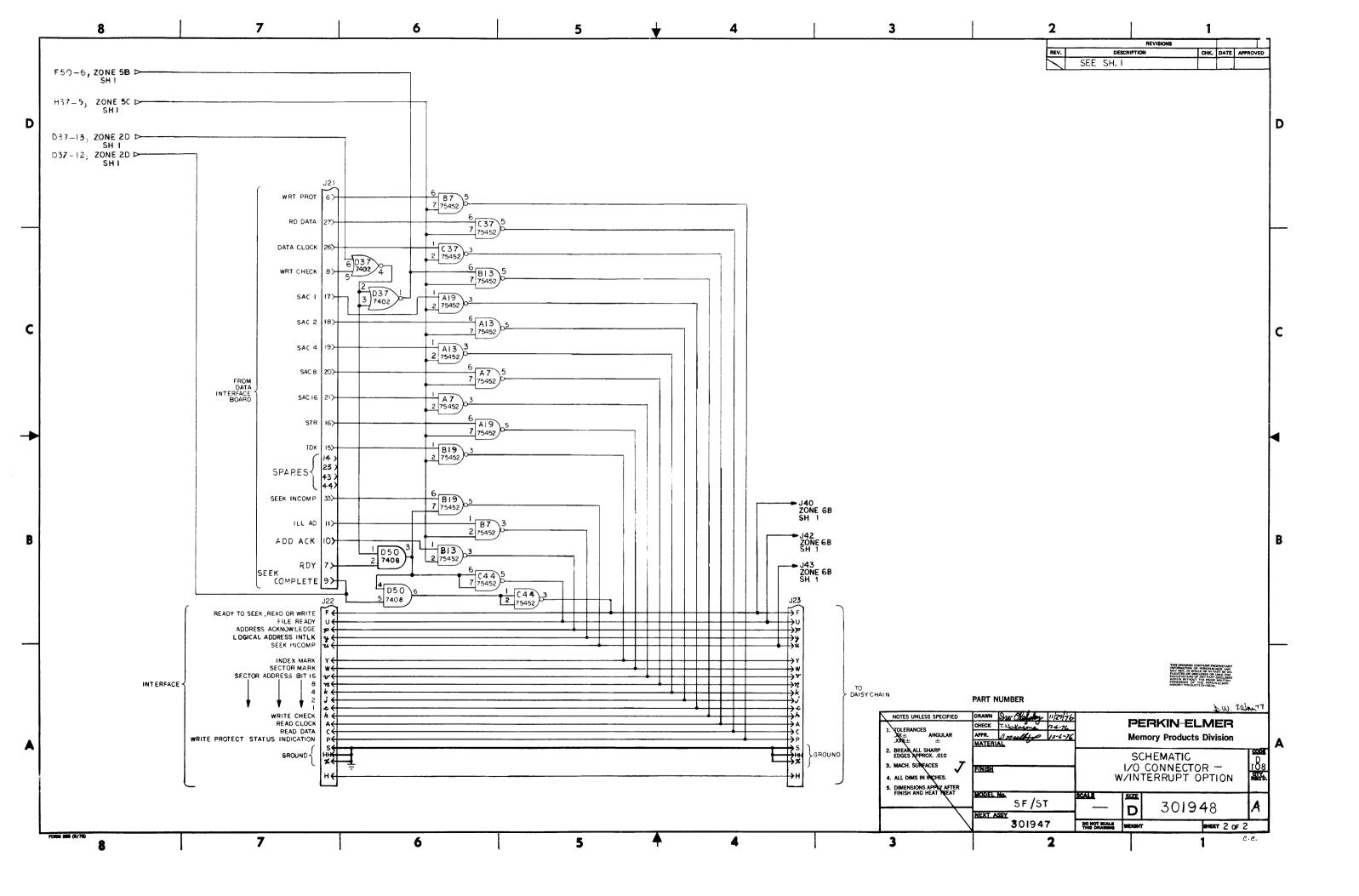


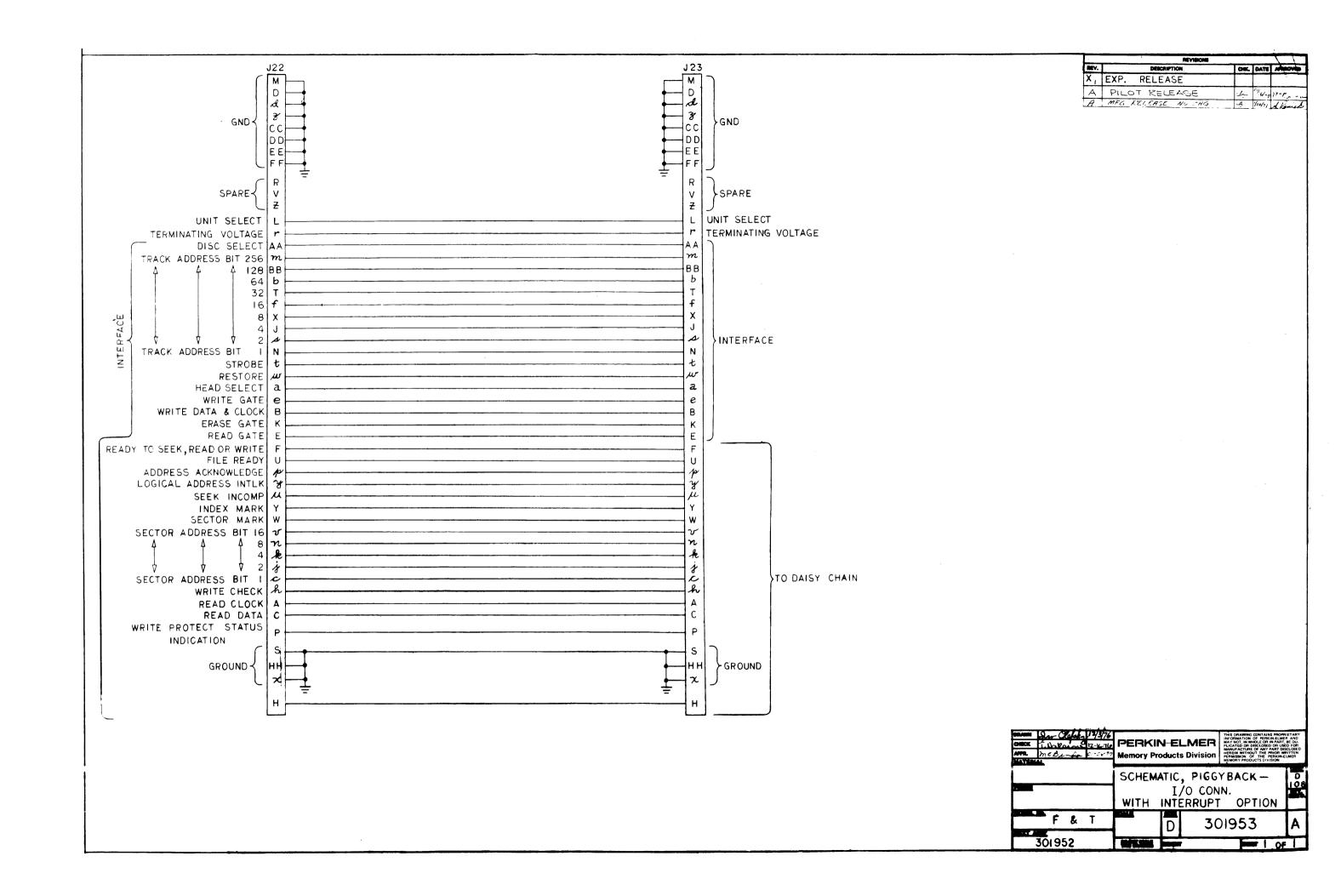


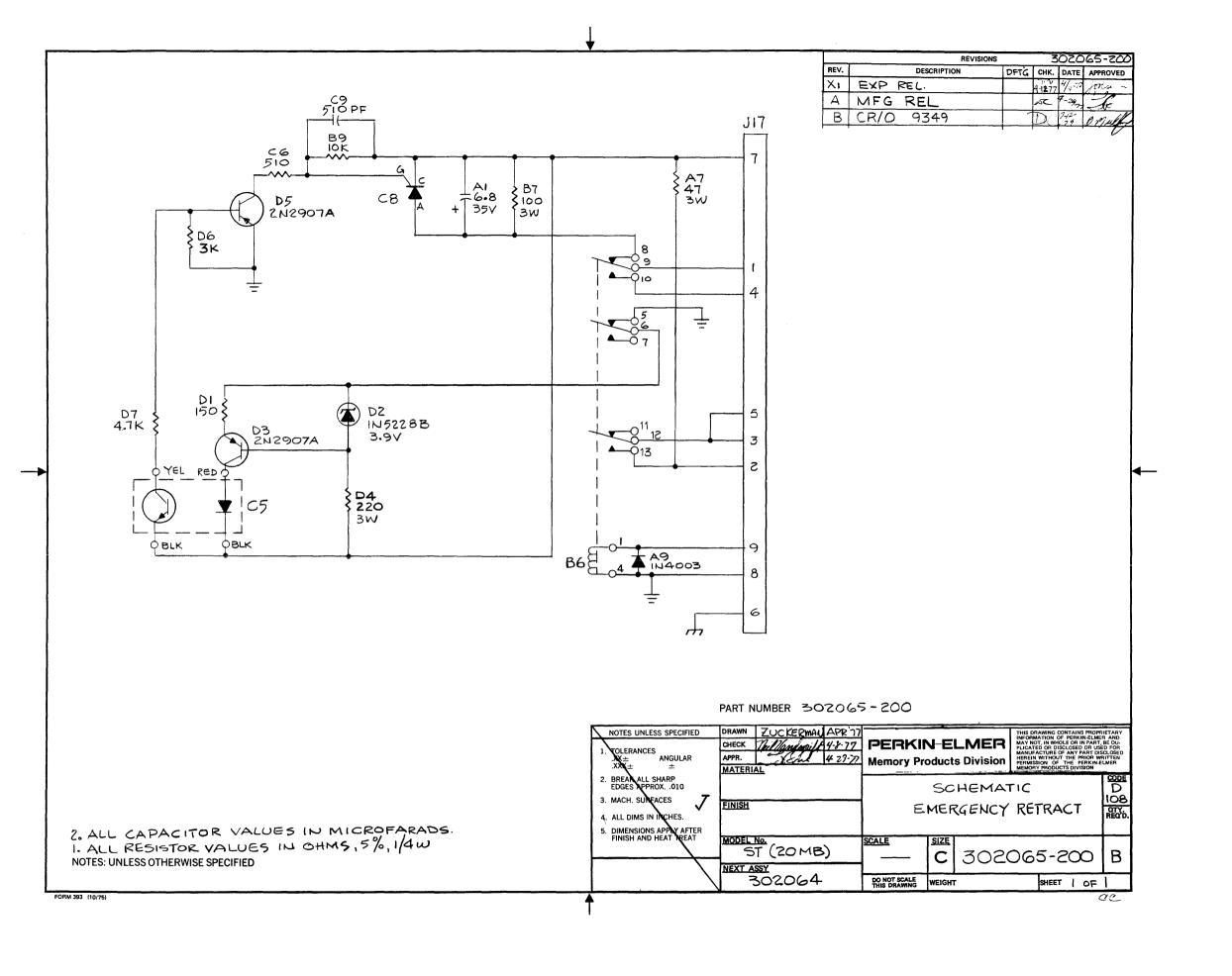












SECTION 2

PWB ASSEMBLY DRAWINGS

2.1 INTRODUCTION

This section contains the assembly drawings and material lists for all PWB assemblies in the SF and ST Disk Drives. These documents are identified in the Index. Logic schematics and power supply schematics are provided in Section 1 of this volume.

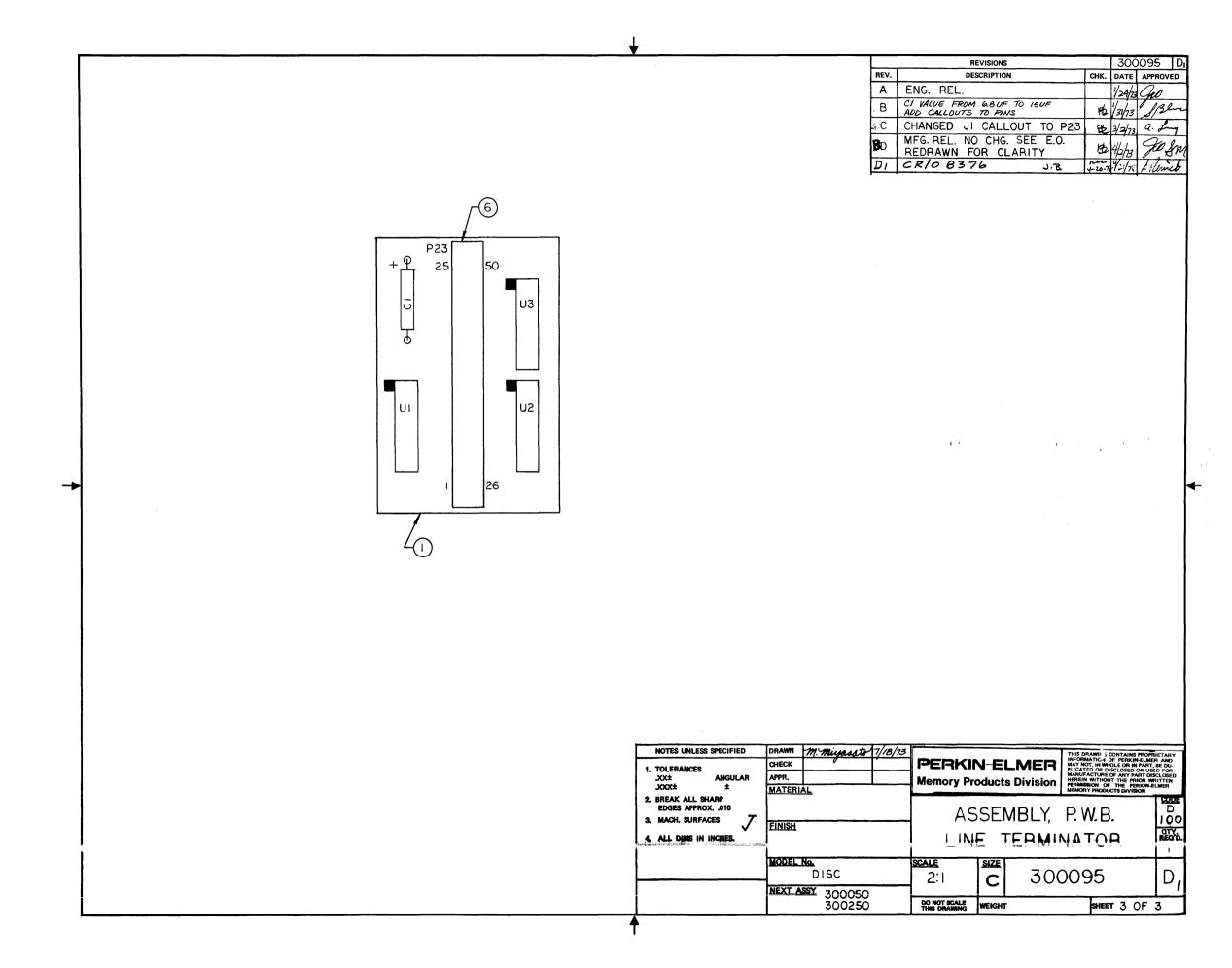
The assembly drawings identify every part on any given PWB assembly. Parts are identified either by item number (e.g., 1, 2, 3, etc.), or by circuit reference number (e.g., R1, C1, U1, etc.), or by coordinate locators (e.g., H2, B23, M35, etc.). The associated material lists incorporate these identification numbers, together with the part description, PERKIN-ELMER part number, and part quantity, i.e., the quantity of a particular part required for the given assembly.

2.2 PWB ASSEMBLY DRAWINGS

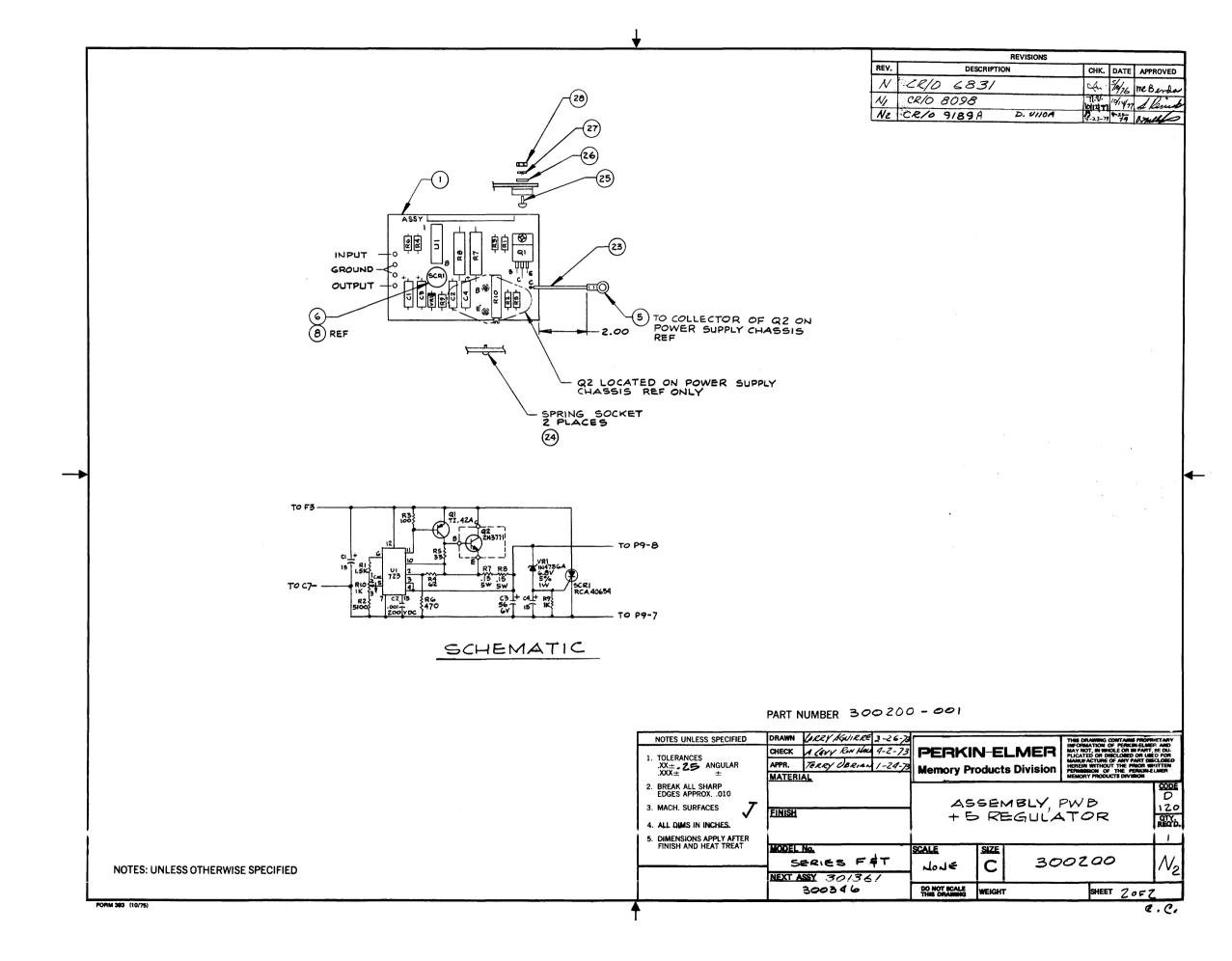
The following PWB assembly drawings are provided in numerical sequence, as listed. Included are related material lists.

Title	Dwg. No.
Line Terminator PWB +5V Regulator PWB and Schematic. Line Terminator PWB, D31/33 Female Line Terminator PWB, D31/33 Male I/O Connector PWB, D31/33 (100 TPI Only) Line Terminator PWB, D40 Female. Line Terminator PWB, D40 Male. Control Interface PWB Data Electronics PWB I/O Connector PWB. Data Interface PWB (VFO) Emergency Retract PWB and Schematic Power Supply MFM Data Control PWB Detent Amplifier PWB.	300095 300200 301047 301055 301070 301074 301174 301206 301291 301320 301354 301361 301422 301457
Servo Amplifier PWB	301632
Servo Logic PWB	301687 301789
Spindle Limiter/5V Drive and Schematic	301920

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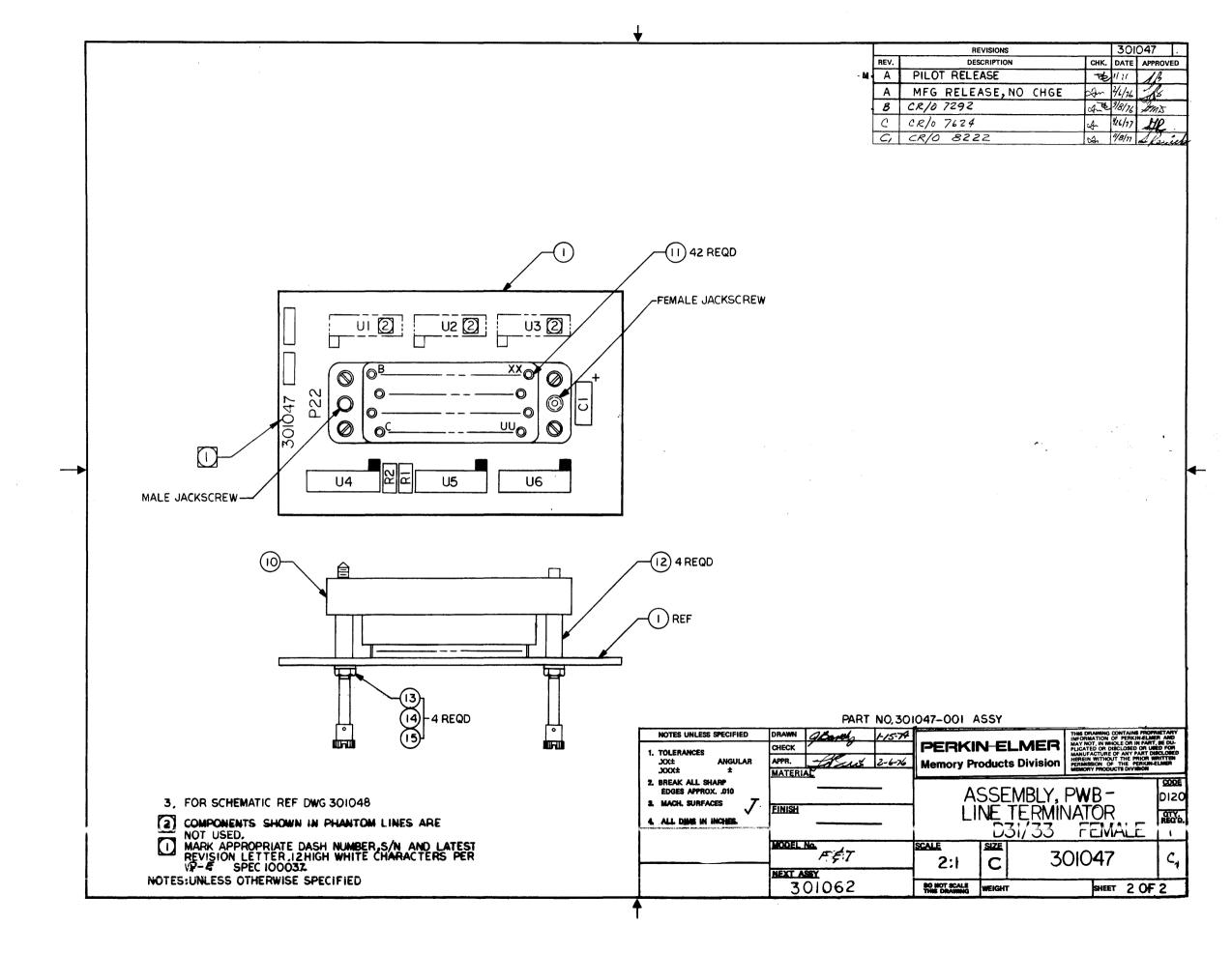
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o z	\vdash	DRAWN TITLE	ASSY. PWB		_ MODEL NO	Disc	c	ATE 1	/24/73 SHEET 1 OF.	D 1
DRAWING	300005	Item No.	Drawing Title		Dwg. No.	Rev.	Oty.	Г	Remarks on Ckt. Desig.	
ž	300	1	Board, Processed.		300094-001	a	1			
Ľ		2								
۱ =	۲	3				·		L_	<u> </u>	
_	<u>≥</u>	4	IC, Resistor Network	110	101000-001		3	U1,3	2,3.	
		5				-	 -	├		
		6 7	Connector, Male	50 Pin	101036-001		1	P23.		
		8	Capacitor 20V.	15uf	101002-156		1	-		
		9	capacitor 20v.	1501	101002-130		 	C1.		
		10	Printed Master.		300096-001		0.~			
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			T		Г	NEXT ASSEMBLY/USED OF	N '						
		İ	i		İ	300346-001							
1	Board, Processed.	300199- 001	1	F	_								
2		1	1	_			_						
3													
	IC, Voltage Regulator 723	100103-001	1			UI.	_						
5		100057-004	1			,	_						
6	 	100223-001	1										
7		101048-001	1			01.							
3		100162-001	1		\vdash	SCR1.							
9		100161-001	1			VRI.							
10	Capacitor, Polyfilm .00luf	101005-102	1			C2.							
11	 	101002-156	2			C1,C4.							
12	 	101001-566	1			C3.							
13			Ī										
1/4	Resistor, Variable. 1K	101006-102	1		Г	R10.							
15	Resistor, W.W., 5:, 5W15	100111-002	2			R7,8.							
16	Resistor, 50, W. 33	101156-330	1			R5.							
17	Resistor, " " 62	-620	1			R4.							
18		-101	1			R3.							
19		-471	1			R6.							
20		-102	1			R9.	_						
21		-152	1			R1.							
22		-512	1			R2.							
23		101090-918	A/R				_						
24	Socket, Spring-Assy.	101142-001	2										
25	Screw, Pan Head.	100036-205	1			4-40 x 5/16"							
26	Washer, Flat.	100047-200	1			No.4.							
27	Washer, Split Lock.	100042-200	1			No.4.							
23	Nut.	10:0043-200	1			4-40.							
20													
30							_						
31													
32	A/W Master	300198-001	0	F	_								

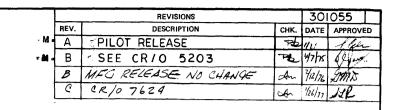
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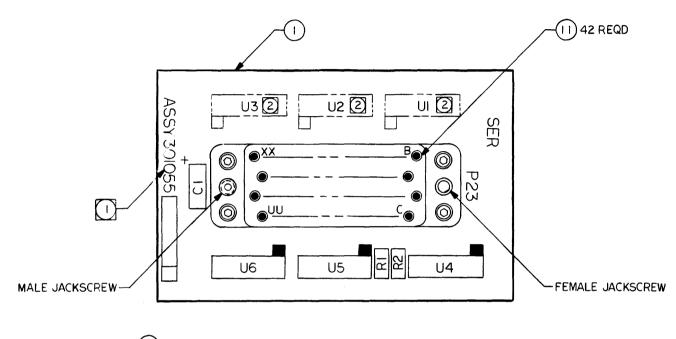


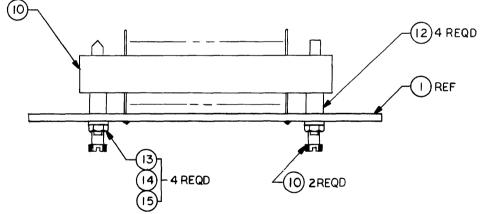
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PART NUMBER	301047-001		JECT E			THIS DRAWING CONTAIN PERKIN-ELMER AND MAN PLICATED OR DISCLOSED ANY PART DISCLOSED H PERMISSION OF THE PER			52465 PART NUMBER 301047-001	D120	
PART	[E	TITL	AS:	SY, PWB NE TERMINATO	IR, FEMALE		D31/33 MODEL F&T DATE 12				
		<u></u>	REGD		1	DESCRIPTION		REMARKS			
+	\vdash	1	1	301046-001	Board, P	rocessed		REV'C'			
		2	_								
		3	1	101002-156	Capacito	r, 20V,10%	15uf	C1			
		4									
\perp	4	5	3	142003-111	Resistor	, Network	110	U4,5,6			
+		6									
		7 8	2	101156-111	Resistor	, 5%,¼W	110	R1,2			
		9									
+	+	10	1	105023-001	Connecto	r. Female	42 Pin	P22			
		11		106002-001				-			
		12	4	100391-014							
		13	4	145003-214	Screw, F	illister Head		4-40 X 7/8			
\perp		14	4	100059-200	Washer,	Lock, Int. Toot	h	No.4			
		15	4	100043-200	Nut, Hex			No.4			
		16									
		17									
+	+	18	_	201040 000	6-1	-		· A J			
		19 20	0	301048-001 301045-001	Schemati Printed			<u>'Δ'</u>	-		
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301055





PART NO.301055-001 ASSY

NOTES UNLESS SPECIFIED DRAWN OBONO PERKIN-ELMER CHECK 1. TOLERANCES .xx± APPR. **Memory Products Division** MATERIAL 2. BREAK ALL SHARP EDGES APPROX. .010 ASSEMBLY, PWB-DIZO 3, MACH, SURFACES LINE TERMINATOR FINISH QTY. 4. ALL DIMS IN INCHES D31/33 MALE MODEL No. FAT 301055 C 2:1 C NEXT ASSY DO NOT SCALE THIS DRAWING SHEET 2 OF 2 WEIGHT

3. FOR SCHEMATIC REF DWG 301056.

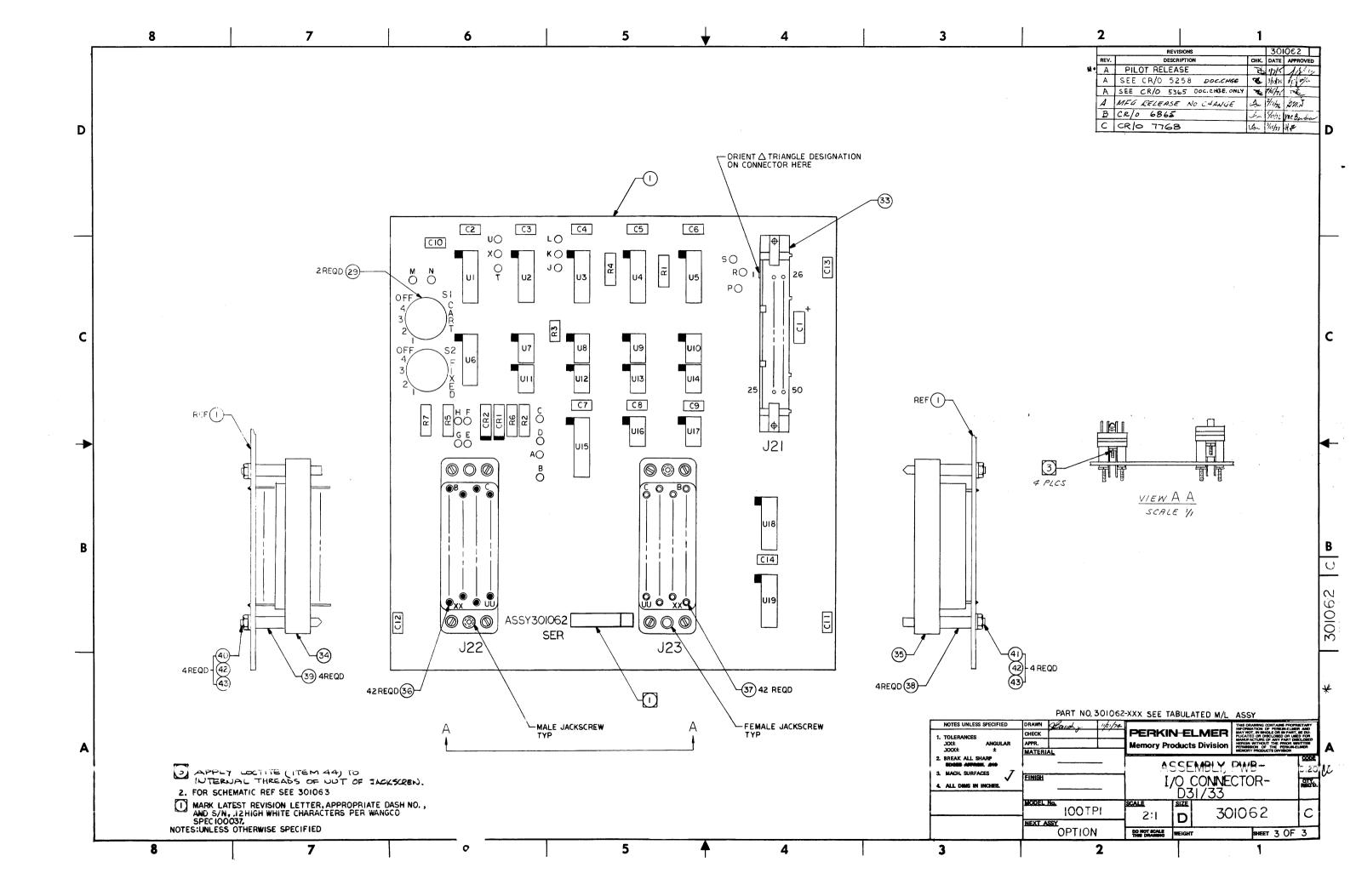
COMPONENTS SHOWN IN PHANTOM LINES ARE NOT USED.

MARK APPROPRIATE DASH NUMBER, S/N AND LATEST REVISION LETTER .12 HIGH WHITE CHARACTERS PER PLE SPEC 100037.

NOTES: UNLESS OTHERWISE SPECIFIED

0		KIN-ELMER MATERI	AL LIST	_	I	ИL	301055-001	R		
+	· ·	ASSEMBLY, PWB.			Ľ			Ŀ		
8	DRAWN	LINE TERMINATOR, MALE D31/33	MODEL NO	_100_T	100 TPI DATE 12/3/74 SHEET 1					
301055-001	Item No.	Drawing Title	Dwg. No,	Rev.	Qty.		Remarks on Ckt. Desig.	_		
301	1	Board, Processed.	301054-001	В	1			_		
,	2									
	3	Capacitor, 10%, 20V. 15uf	101002-156		1	C1.				
⅀	4							_		
	5	Resistor, Network. 110	142003-111		3	U4,5	,6.			
	6			<u></u>						
	7	Resistor, 5%, W. 110	101156-111		2	R1,2	•			
	8									
	9									
	10	Connector, Male 42 Pin.	105010-010		1	P23.				
	11	Contact Pin Male.	106002-002		42					
	12	Spacer, Fibre.	100391-015		4					
	13	Screw, Cap Socket Hd.	100041-208		4	4-40	x 1/2"			
	14	Washer, Lock, Ext. Tooth.	163000-002		4	No.	4.	_		
	15	Nut, Hex. Small Pattern	101163-003		4	No.	4			
	16									
	17									
	18									
	19	Schematic.	301056-001	A	. 0					
	20	Printed Master.	301053-001	A	0					
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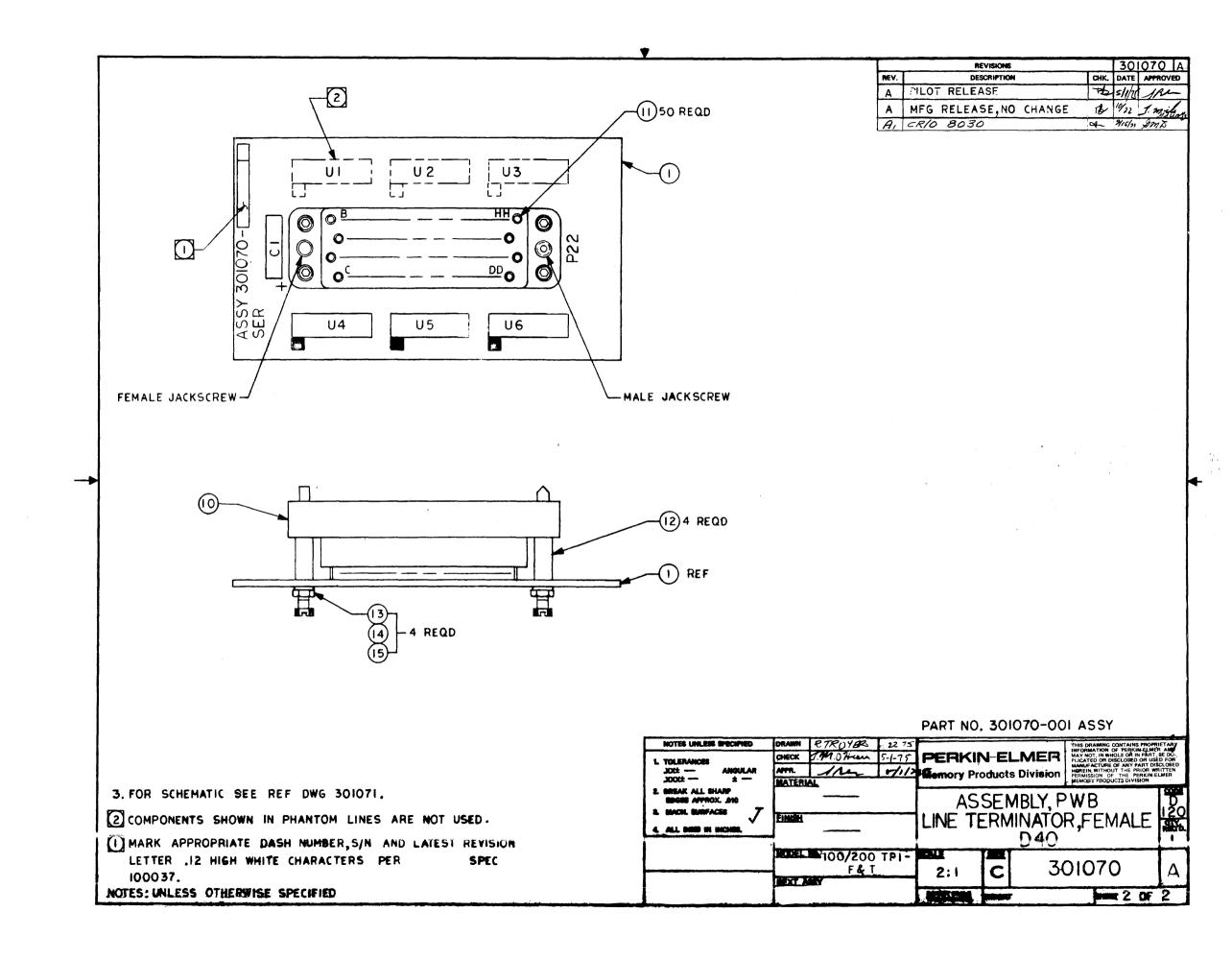


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000	Mem DRAWII TITL	ory Products Division ASSY. PWB I/O CONNECTOR D31/33	(SF&S	T 100T (F&T)	100TPI Only) 2T) DATE 11/27/74 SHEET 1 DE					
301062-000	Item No.	Drawing Title	Dwg. No.	Rev.	Qty.	Remarks on Ckt. Desig.				
3010	1	Board, Processed.	301061-001	C	1					
	2									
L	3									
Ξ	4	I.C. 7402	100329 -001		<u>:</u>	U19.				
	5	I.C. 8T380 or 8836	100347 - 001		5	U2,U3,U4,U5,U6.				
	6	I.C. 75452	101031 -001		10	U7, U8, U9, Ư10, U11, U12				
	7					U13, U14, U16, U17.				
	8	I.C. 7408	100332 -001		2	U18, T1				
	9	I.C. Resistor Network. 10	K 142004-103		1	U15.				
	10		1							
	11									
	12	Capacitor Cer. 201,100V,.01u	f 101042-103		8	C2,C3,C4,C5,C6,C7,C8,C9.				
	13									
	14	Capacitor Cer. 207,50V., .1u	f 101037-104		4	C10,C11,C12,C13.				
Ì	15	Capacitor Tant 10 ,20V., 56u	f 101002-566		1	C1.				
	16									
	17									
-	18									
	19	Diode, Pectifier 1N4003	100127 -001		2	CRI,CP2.				
	20									
	21									
	22		1							
	23	Resistor, 5°, W. 2K	101156-202		3	R3,R4,R5.				
	24	Resistor, 5% 10K	-103		3	R2,R6,R7.				
	25	Resistor, 5'," 75	101156-750		1	R1.				
	26									
	27					L				
	28									
	29	Switch, Rotary Selector.	149004-001		2	\$1,\$2.				
	30									
	31	Pin, Wire Wrap.	100360-003		19	Jumper Points, A,B,C,D,E,F				
1	32					G.H.J.K.L,M,N.P.R,S,T,U,X				

		way er stem MAT	ERIAL LIST		1	41	DRAWING NO.	REV
V		RKIN-ELMER # A I					301062-000	C
00	DRAWI TITL	ASSY. PWB. I/O CONNECTOR D31/33	(SF&S	T 100T (F&T)	PI On1	1/27/74 _{SHEET} 2 or	_3_	
301062-000	Item No.	Drawing Title	Dwg. No.	Rev.	Qty.		Remarks on Ckt. Desig.	
18	33	Connector, Male. 50 Pi	n. 101040-001		1	J21.		
"	34	Connector, Male. 42 Pi	n. 105010-001		1	J22.		
	35	Connector, Female. 42 Pi	n. " -002		1	J23.		
⅀	36	Contact Pin Male.	106002-002		42			
	37	Contact Pin Female.	" -001		42	<u> </u>		
	38	Spacer, Fibre.	100391 -014		4			
	39	Spacer, "	" -002		4			
	40	Screw, Fillister Head.	145003-212		4	4-40	0 x 3/4"	
	41	Screw, " "	" -214		4	4-40	0 x 7/8"	
	42	Washer, Lock, Int. Tooth.	100059-200		8	No.	4.	
	43	Nut, Hex.	100043-200		8	No.	4.	
	44 Cement, Loctite		100303-004		A/R			
	45							
	46	Schematic.	301063-001	B	0			
	47	Printed Master.	301060-001	Α	0	L_		
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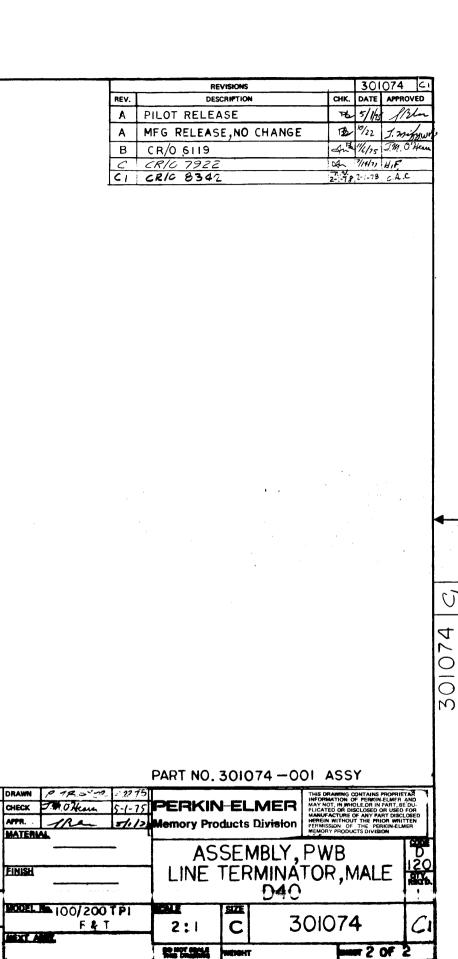
REV.	2	PERK	IN-ELMER	MATERIAL L	IST		PART NUMBER REV.
2	Ø	Memor	Products Division		=		301062-101 A
BER	10	TITLE	ASSEMBLY, PWB. 1/0 CONNECTOR, D31/33	MODEL	SF, 100	ST TPI	DATE
ş	52-1	ITEM NO.	DESCRIPTION	PART NO.	REOD	REV. RE	T. REMARKS
PART NUMBER 301062-101		П	USE MATERIAL LI AND ADD THE FOLLOWING:	ST 301062-000		B	NEXT ASSEMBLY/USED ON
1 27 77							
		1	Wire, Jumper	300648-001	A/R	\Box	Jumper J1 from A to B
ď	neck	⊢	· ·		⊢		Jumper J2 from C to D
govea	in	\vdash			╁	-	Jumper J6 " M to N Jumper J7 " T to U
£ \	2	\vdash			\vdash		Jumper J8 " R to P
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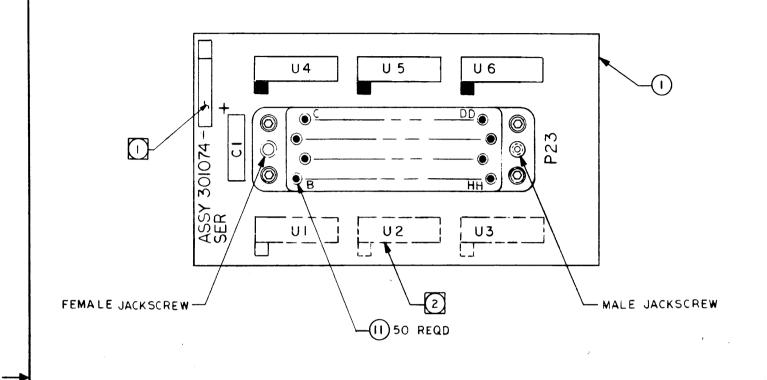
			NEGATIVE ATTENTIO	ON,HEAD SELEC	T INV	ERTED)					D120
>			ERKIN-ELMER M.	ATERIAL L	IST				PAI	RT NUMB	ER	REV.
REV.	3	Me	mory Products Division							301062-102		
PART NUMBER	~		ASSEMBLY, PWB. 1/0 D31/33	MODEL		TPI		DATE	5-6-7	6SHE	ет _1	OF 1
ž	-10	ITEM NO.	DESCRIPTION	PART NO.	REQD REV. REV.				REMARKS			
PARI	301062-102	USE MATERIAL LIST AND ADD THE FOLLOWING ITEMS: 301062-000					E	NEXT A	SEMBLY	/USED (N.	
F	9 9.1	50	AND ADD THE FOLLOWING ITEMS: Jumper, Insulated	300648-001	5			Jump Jump Jump	per J3 ser J4 ser J5 ser J7 ser J8	" G " J " T	to F to H to L to U to P	
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		FO	RM 209 (R,12/74)									

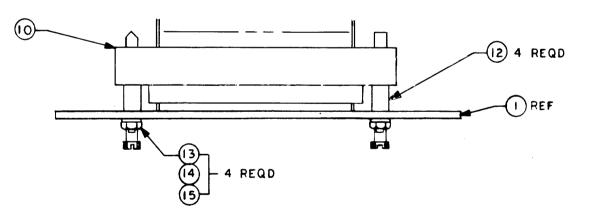


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JE.	٦		TKIN-ELMER	MA	TERIAL LI	ST				PART NUMBER	REV.
۳1	A	Mem	ory Products Division	==		=				301070-001	Aı
PART NUMBER	301070-001		ASSEMBLY, PMB. LINE TERMINATOR, FEMAL	E, D4		F	′200T & T	_	DATE	2/13/75 SHEET 1	
2	٠٧٥	ITEM NO.	DESCRIPTION		PART NO.	REQD	REV.	ACT. REV.		REMARKS	
¥	301									NEXT ASSEMBLY/USED O	N .
- {								1			
7	1	1	Board, Processed		301069-001	1	B				
١.٥	11	2									
X///	1	3	Capacitor, 10%, 20V	5uf	101002-156	1			C1.		
	7 1	4									
200	П	5	Resistor, Network	110	101000 -001	3			134	5,6.	
	1	6									
		7									
	٠	8									
		9									
		10	Connector, Female 50 Pin		105010-013	1			P22		
		11	Contact Pin Female		106002-001	50					
		12	Snacer, Fibre		100391-014	4			_		
		13	Screw, Cap, Socket Hd.		100041-214	4			4-4	ln x 7/8"	
		14	Washer, Lock, Ext.Tooth		163000-002	4			№0.	4.	
	ì	15	Nut, Hex, Small Pattern		101163-003	4		L.	No.	4.	
		16							_		
		17							L_		
		18				L		_	<u> </u>		
		10	Schematic		301071-001	0	A	<u> </u>	<u> </u>		
		20	Printed Master		301068-001	0	Α	_	<u> </u>		
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	-	FÓF	BM 209 (R,12/74)			L		<u> </u>	L		

FORM 209 (R,12/74)







NOTES UNLESS SPECIFIED

APPR. .

MEYT AND

1. TOLERANCES 700# —

2. BREAK ALL SHARP BOOM APPROX. .010

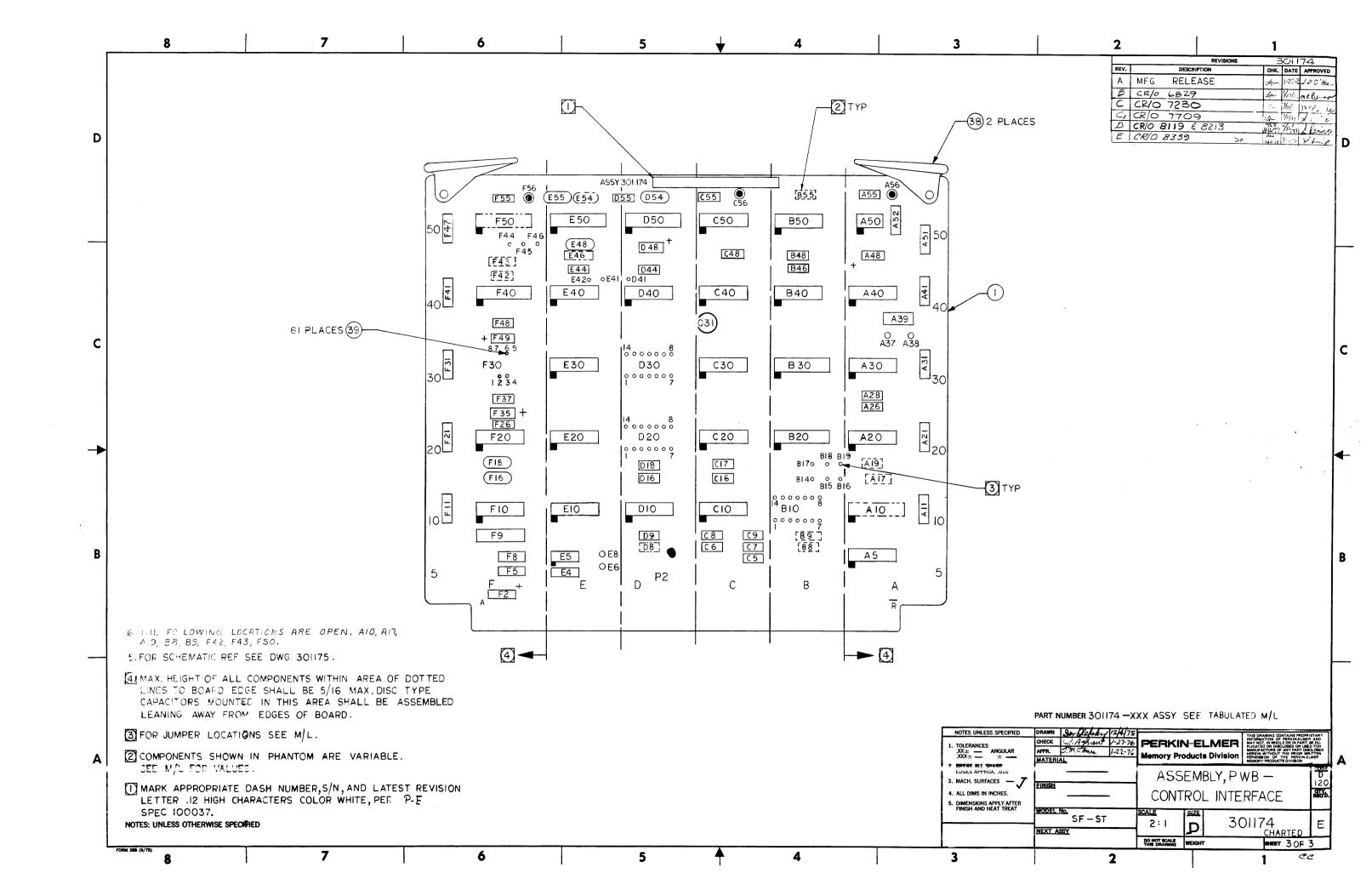
3. FOR SCHEMAT	IC SEE	RE	F DWG	301075.			
2 COMPONENTS	SHOWN	IN	PHANT	OM LINES	ARE	NOT	USED.

MARK APPROPRIATE DASH NUMBER, S/N AND LATEST REVISION LETTER .12 HIGH WHITE CHARACTERS PER SPEC, 100037.

NOTES: UNLESS OTHERWISE SPECIFIED

	PER	RKIN ELMER M.A.	TERIAL L	ST			ŀ	PART NUMBER	REV
1		ASSEMBLY, PAR. LINE TERMINATON, MALE 040.	MODEL _	100/ F	20:)T! ' ላ T	PI	DATE .	301074-001 2/13/75 SHEET 1	OF 2
Ì	ITEM NO.	DESCRIPTION	PART NO.	REQU	REV.	ACT. REV.		REMARKS	
								NEXT ASSEMBLY/USED	ON
+	1	Roard, Processed	30[073-00]	1	E		-		
l	2								
ļ	3	Capaciton, 10%, 20V ISuf	101002-15%	1		_	71.		
I	4			ļ		ļ	ļ		
ł	5	Resistor, Network 110	101000-001	3			134,5	1,6.	
ł	7			├—	-	-	-		
ł	3					_	 		
ı	n						 -		
ı	10	Connector, "ale, of Pin	105010-012	1		_	P.33.		
	11	Contact Pin Nale	101/02/002	51					
I	12	Spacer, Filine	100391-015	1					
ı	13	Screw, Cap, Socket Hd.	100041-203	4			4x^^	x 1/2"	
1	14	"lasher, Loc?	100042-200	A			10.0	<u> </u>	
1	1'.	Mut, Hex, Small Pattern	101163-003	Λ			No.4	١.	
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ŀ	1º	Schematic Printed "aster	301077 -001	0	P	ļ	<u> </u>		
ł	-	erinted aster	301072 -001	0	<u> </u>				
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	PE	RKIN-ELMER MA	TERIAL L	IST			PART NUMBER	RE
Ÿ.	Mer	-					301074-002	1
005	TIT	ASSY. PWB LINE TERMINATOR, MALE D40	_ MODEL .		& ST &T	_	DATE 12-9-76 SHEET 1	. OF .
074-	ITEM NO.	DESCRIPTION	PART NO.	REQD	REV.	ACT. REV,	REMARKS	
301		IISE MATERIAL LIST	301074-001		В		NEXT ASSEMBLY/USED O	N
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	301074-002	301074-0	DESCRIPTION USE MATERIAL LIST AND ADD THE FOLLOWING: Rework	TEM DESCRIPTION PART NO. USE MATERIAL LIST 301074-001 AND ADD THE FOLLOWING:	TITEM DESCRIPTION PART NO. RECODE USE MATERIAL LIST 301074-001 AND ADD THE FOLLOWING: Rework	TITEM DESCRIPTION PART NO. REQUIREV. USE MATERIAL LIST 301074-001 Rework Rework	TITEM DESCRIPTION PART NO. RECO REV. ACT. USE MATERIAL LIST 301074-001 Rework Rework	TITEM DESCRIPTION PART NO. RECO REV. REV. REMARKS USE MATERIAL LIST 301074-001 REWORK REWORK Cut and Remove the following pins: U4 - Pin 1 U4 - Pin 6



	PEI	RKIN-ELMER M.A	TERIAL L	1 S T			301174-000 F
00	1	ASSY. PWB. CONTROL INTERF	ACE. MODEL.	SF	, ST		DATE 10/3/75 SHEET 1 OF 2
4-0	ITEM NO.	DESCRIPTION	PART NO.	REQD	REV.	ACT. REV.	REMARKS
301174-000							NEXT ASSEMBLY/USED ON
┰	1	Board, Processed.	301173-001	1	-		
1	ż		1	1	T 1		
1	3	I.C. 555	101023-001	1			A50.
1	4	I.C. 74LS00	123029-001	1			A30.
ı	5	I.C. 74LS02	123030-001	1			D40.
ı	6	I.C. 74LS04	123031-001	2			A5, F10.
ı	7	I.C. 74LS08	123032-001	5			A40,C10,C50,E40,F20.
J	8	I.C. 74LS32	123035-001	1			E20.
	9	I.C. 74LS74	123036-001	4			A20,B50,E30.E10
	10	I.C. 74LS86	123038-001	1			D10.
	11	I.C. 74LS123	123039-001	3			D50,E50,F40,
	12	I.C. 74LS157	123040-001	2			B20,B30.
	13	I.C. 74LS293	123042-001	4			B40,C20,C30,C40.
	14	I.C. 75452	101031-001	1			E5
	15	Diode 1N4003	100127-001	2			F5,8
	16	Capacitor, Mica. 100pf	100243-101	2			D54,E48
	17	Capacitor, " 200pf	-201	3			E55,F16,F18.
	18	Capacitor, Poly0015uf	101005-152	1			F49
	19				Ш		
	20	Capacitor, Ceramic 50V .01uf	101042-103	11			A11,A21,A31,A41,A51,A52,F1
							F21,F31,F41,F47
	21	Capacitor, Tant. 35V 1uf	101003-105	1	\Box		D48.
	22	Capacitor, " 20V 2.2uf	101002-225	1	Ш		F35.
	23	Capacitor, " 20V 15uf	-156	1			F2
	24	Capacitor, " 6V 56uf	101001-566	1	Ш		A48.
	25	Resistor, Variable 10K	101148-103	1	Ш		C31
	26	Resistor, 3,3W 45	101084-022	1	Ш		F9
	27	Resistor, 5%, \dag{w}. 75	101156-750	17			C5,C6,C7,C8,C9,C16,C17.
	28	Posistor " " 1V	 	+-	\vdash		100 04 055 500
	$\overline{}$	RESISTOR, IK	-102	4	\vdash		A26.B48,D55,F26.
	-	RESISTOR, 5.1k	-512	+	\vdash		D44
	31	Resistor, " " 7.5K	-752	H	\vdash	-	C55
		IM 209 (Hc12/74)		—	ш		<u> </u>

MATERIAL LIST

USE MATERIAL LIST 301174-000 AND ADD THE FOLLOWING:

TITLE ASSY, PWB. CONTROL INTERFACE MODEL SFAST DATE 5-21-76 SHEET 1 OF 1 PART NO. REQD REV. REV.

B10-11 to B10-12 D20-1 to D20-14

D30-1 to D30-14 D30-3 to D30-13 D30-6 to D30-7 D30-8 to D30-10 D30-9 to D30-11 F30-3 to F30-6 D41 to E41 F45 to F46

PERKIN ELMER
Memory Products Division

56 57 Jumper, Insulated

53 54 55

REV.		· PE	RKIN ELMER		TERIAL L	IST.			PART NUMBER RI
æ,	Ш		mory Products Division	===	THE PARTY OF THE P	=			301174-000 E
BER	00	TIT	TLEASSY. PWB. CONT	ROL INTERF	ACE MODEL .	SF	,ST		DATE
NUMBER	74-0	ITEM NO.	DESCRIPTION		PART NO.	REQD	MIN. REV.	ACT. REV.	REMARKS
PART	301174-000								NEXT ASSEMBLY/USED ON
_	1	32	Resistor, 5%, ½ W.	10K	101156-103	9	 	 	A28, B46, C48, D9,D1
<u>ڊ</u> س	П		10010001 001 2 11		107100 100				D18, E44, F55. E4
DAT	П	33	Resistor, " "	20K	-203	2			F48 ,A39
_ ;	1	34							
APPROVED	Ш	35	Resistor, " "	240K	-244	1			F37
PR.		36	Resistor, " "	2.0 meg	-205	1			A55
4	ı	37							
		38	Extractor, Card.		107901-001	2			
		39	Pin, Wire Wrap.		100360-001	64			B10-1,2,3,4,5,6,7,8,9,10,
		Щ				<u> </u>		L	12,13,14,814,815,816,817
		Ш				ــــــ	L	_	B18,B19,D20-1,2,3,4,5,6,7
		┝┈┥				Ь	_	ļ	9,10,11,12,13,14,D30-1,2,
		Ш				<u> </u>	<u> </u>		4,5,6,7,8,9,10,11,12,13,1
		Ш				-	<u> </u>	<u> </u>	F30-2,3,6 ,E6,8,A37,38,56
		40				ļ	ļ.	_	F44,45,46,D41,E41,42,C56,
		41				 	-		ļ
		H	Schematic		301175 -001	0	E	-	
	ı	\vdash	Printed Master.		301172 -001	0	-	-	
		\vdash	Specification		301437 -001	0	-	-	
		-	Test Procedure		900106 -001	0		-	
		-	Test Specification		900107 -001	0	-	\vdash	
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	3		•		INTERFACE	MODEL _	200 SF	TPI & ST	_	DATE		01174-103 -76 SHEET 1	Ь
	301174-103	ITEM NO.	DI	ESCRIPTION		PART NO.	REQD	REV.	ACT. REV.			REMARKS	
	3011	NO.	AND ADD THI	USE MATER		301174-000		E			NEXT	ASSEMBLY/USED	ON
=	T	50						<u> </u>	<u> </u>	<u> </u>			
	П	51	Capacitor,	Poly	.001uf	101005-102	1	_	_	E54			
		52	Capacitor,	Poly	.0068uf	101004-682	1	<u> </u>	├-	E46			
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	-	54					\vdash	├		├			
	l	55					├-	├	├	-			
I	J	56				200540 001	20	┢	-	1	per	A37 to A38	
		57	Jumper, In	sulated		300648-001	20	╁	+-	Juli	per	B14 to B15	
		<u> </u>					┼	╁╌	+-	1		B17 to B18	
		├-				 	1	╁	+-	1		B10-1 to B1	0-7
		<u> </u>					\vdash	-	t	 		B10-6 to B1	
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		-					+-	1	†	t		B10-11 to B	
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REV.			RKIN ELMER	M A	TERIAL L	I S T				RT NUMBER	REV.
4	U	Men	nory Products Division	_					3	01174-001	Ġ
TANI NOMBER	100	TIT	ASSY. PWB. CON	TROL INTERFA	CE MODEL					76 SHEET 1	of _1
2	301174-001	NO.	DESCRIPTION		PART NO.	REQD	REV.	ACT. REV.		REMARKS	
	301		USE MATE AND ADD THE FOLLOW	ERIAL LIST	301174-000		БŢ		NEXT A	SSEMBLY/USED (N
: 2	П	50									
	П	51	Capacitor, Poly	.001uf	101005-102	1			E54		
`		52	Capacitor, Poly	.0068uf	101004-682	1			E46		
į	71	53			<u> </u>	<u> </u>		L			
•	Ш	54				<u> </u>					
	11	55									
	Ш	56					<u> </u>				
	-	57	Wire, Jumper		300648-001	20			Jumper Jl	B14 to B1	.5
	ļ				ļ		<u> </u>		J2	B17 to B1	
	- 1						L		J3	D20-7 to	
						ļ			J4	F30-3 to	F30-6
						ļ			J5	D30-6 to	
	- 1					ļ		_	J6	D20-5 to	
					ļ	Ļ		_	J7		
						 			J8	D30-9 to	
						<u> </u>			J9	D20-3 to	
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U E		RKIN ELMER	O SECTOR CO	TERIAL L			KIIL	1,1,11	PART NUMBER	D120
T	i	TLE ASSY. PWB. CONTR	OI INTERENCE			OTPI & ST		l	301174-104	<i>Ģ</i>
301174-104	ITEM NO.		OL THIERING	PART NO.	REQD			DATE .	5-21-76 SHEET 1	OF
3011			ERIAL LIST	201174 000					NEXT ASSEMBLY/USED	ON
1		AND ADD THE FOLLOWI		301174-000		É				
ँ	50									
	51	Capacitor, Poly	.001uf	101005-102	1			E54		
5	52	Capacitor, Poly	.0068uf	101004-682	1			E46		
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\rightarrow	55				<u> </u>	_	_			
	56	7		200640 001	<u> </u>		-	7	A27 to A20	
	57	Jumper, Insulated		300648-001	20		├	Jum	per A37 to A38 B14 to B15	
	⊢				-		-	-	B17 to B18	
	⊢				\vdash	-	-	┝	B10-1 to B1	0-7
	⊢				╁	\vdash		\vdash	B10-6 to B1	
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	┢				1				B10-11 to B	10-12
	-								D20-1 to D2	0-14
									D20-3 to D2	0-12
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									D30-3 to D3	0-13
									D30-5 to D3	0-7
									D30-8 to D3	0-10
									D30-9 to D3	0-11
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301174-101	T				LEXED			INDIE D12
101			RKIN-ELMER NA	TEDIAL II	С.Т		_	PART NUMBER REV
101	ı	Mem	ory Products Division M.A.	TERIAL L	3 1			301174-101
12		TIT	LE ASSY. PWB. CONTROL INTERFACE	MODEL _	200 SF	TPI & ST	_	DATE 5-21-76 SHEET 1 OF 1
17	ı	NO.	DESCRIPTION	PART NO.	REQD	REV.	ACT. REV.	REMARKS
3011	200		USE MATERIAL LIST AND ADD THE FOLLOWING:	301174-000		Ē		NEXT ASSEMBLY/USED ON
Ā	1	50	44 + 4				_	
	ľ	51	Capacitor, Poly .001uf	101005 -102	1		L	E54
		52	Capacitor, Poly .0068uf	101004-682	1			E46
``	I	53					_	
٠		54				L	Ļ	ļ <u> </u>
ŧ.	1	55			\vdash	_	_	
Ì	ı	56						
_	I	57	Jumper, Insulated	300648-001	20		<u> </u>	Jumper A37 to A38
	ı				Ь.		L.	B14 to B15
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301174-105	:	ITEM NO.	DESCRIPTION		PART NO.	REQD	REV.	ACT. REV.			REMARKS	
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٠`	П	52	Capacitor, Poly .0068uf	1	01004-682	1			E46			
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t	-	PEI	D-40 SECTOR COUNTER PINCIN ELIMER Any Products Division M. A.	TERIAL L	SF	& ST	ACT. REV.	PART NUMBER RE 301174-112 /- DATE 5-24-76 SHEET 1 OF
t	-	PEI Mon	D-40 SECTOR COUNTER THICKIN ELIMEN THE Products Division M. A ASSY. PWB. CONTROL INTERFAC DESCRIPTION USE MATERIAL LIST	E MODEL	SF REQU	& ST	ACT. REV.	PART NUMBER RE 301174-112 /-
+	3011/4-112	PEI Mon	D-40 SECTOR COUNTER PRINT ELMER DOTY Products Division TLE ASSY. PMB. CONTROL INTERFACE DESCRIPTION	MODEL .	SF REQU	& ST	ACT. REV.	PART NUMBER RE 301174-112 /- DATE 5-24-76 SHEET 1 OF
201174 112	3011/4-112	Men TI TIEM NO. 50	D-40 SECTOR COUNTER THICKIN ELIMEN THE Products Division M. A ASSY. PWB. CONTROL INTERFAC DESCRIPTION USE MATERIAL LIST	MODEL .	SF REQU	& ST	ACT. REV.	PART NUMBER RE 301174-112 /- DATE 5-24-76 SHEET 1 OF
201174 112	3011/4-112	Men TI TEM NO.	D-40 SECTOR COUNTER THICKIN ELIMEN THE Products Division M. A ASSY. PWB. CONTROL INTERFAC DESCRIPTION USE MATERIAL LIST	MODEL .	SF REQU	& ST	ACT. REV.	PART NUMBER RE 301174-112 /- DATE 5-24-76 SHEET 1 OF
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3011/4-114	ITEM NO.	DESCRIPTION		PART NO.	REQO	REV.	ACT. REV.	REMARKS	
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					-	_			D20-5 to D20	
							\neg		D20-6 to D20	
						\neg	_		D20-7 to D20	
	- [\neg			D30-3 to D30	
							一		D30-6 to D30	
									D30-8 to D30	
	ı								D30-9 to D30	-11
	Į								F30-3 to F30	-6
	١	_							D41 to E41	
	١	_							F45 to F46	
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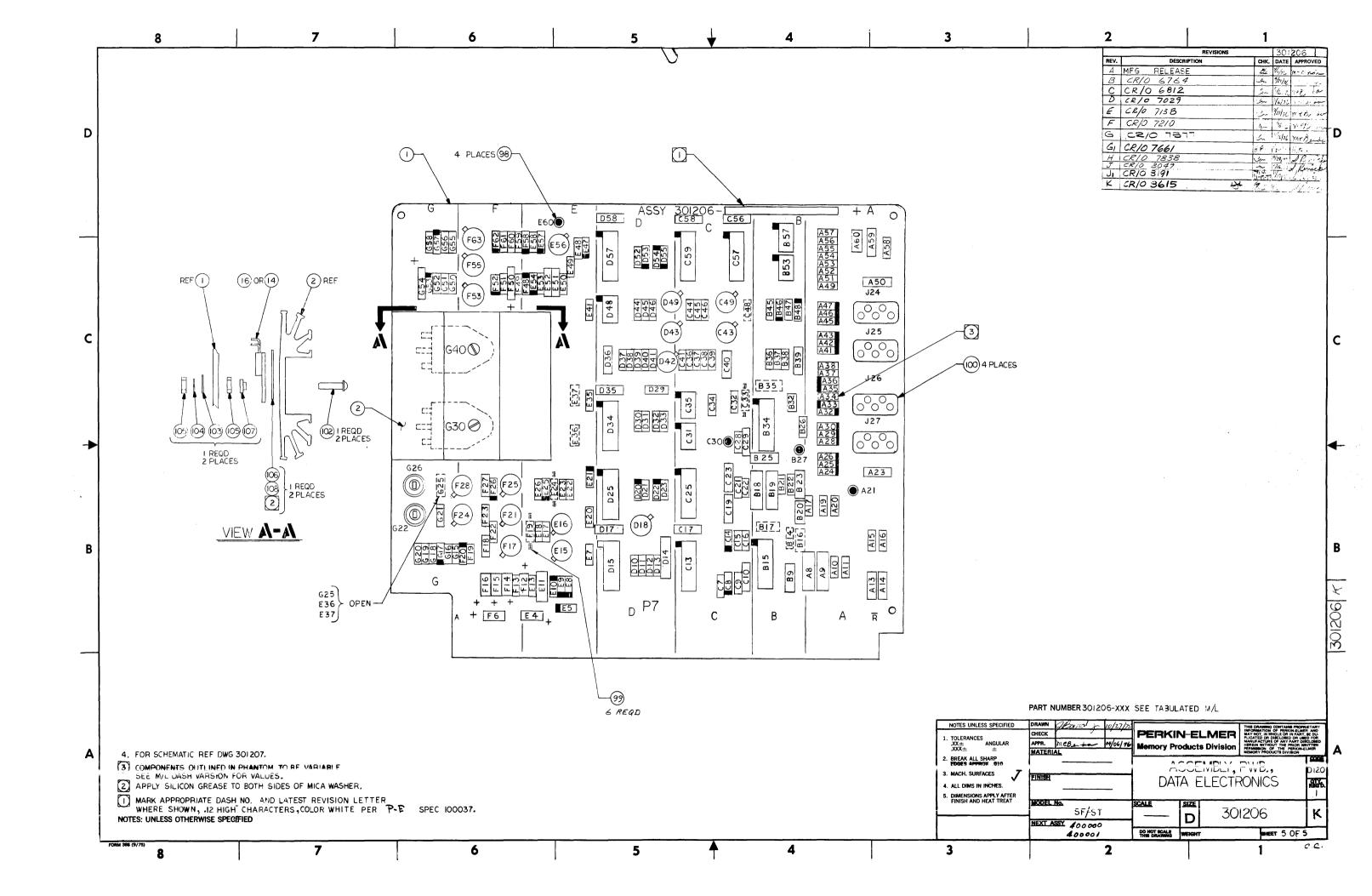
		D-30 NO SECTOR COUN				T	PART NUMBER	D120
C	PE Me	ERKIN-ELMER M. mory Products Division	ATERIAL L	I S Ţ			301174-120	11.27
		ASSY. PWB. CONTROL INTERFAC	CE. MODEL -		TPI & ST.		SHEET	ا ا
301174-120	ITEM	DESCRIPTION	PART NO.	REGO				. OF
E	NO.	DESCRIPTION	PAHI NO.	REGO	REV. REV		REMARKS	
30		USE MATERIAL LIST AND ADD THE FOLLOWING:	301174-000		E		-235, 400001-22	
┪	50			┢		100000	200, 400001 E2	
1	51	Capacitor, Poly001uf	101005-102	1	-	E54		
	52	Capacitor, Poly .0068uf	101004-682	1		E46.		
2	53							
	54							
į	55							
ا اد	56							
	57	Jumper, Insulated.	300648-001	20		Jumper	A37 to A38	
							B14 to B15	
	L.,						B17 to B18	
	Ш		<u> </u>		\sqcup	1	B10-1 to B10	-5
	L.			L_	oxdot		B10-6 to B10	-2
			L				B10-9 to B10	-8
	Щ						B10-13 to B1	
	Ш				lacksquare		D20-3 to D20	
	\vdash		 	<u> </u>	\vdash	 	D20-5 to D20	
	\vdash		 	_	\vdash	-	D20-6 to D20	
	\vdash		ļ	_	\vdash	<u> </u>	D20-7 to D20	_
	Н		+	-		 	D20-13 to D2	
	\vdash		<u> </u>	_	\vdash		D30- 2 to D31	
	\vdash		 	<u> </u>		-	D30-3 to D30-	
	\vdash		 	_		+	D30-6 to D30-	
ı	-		1 	 	 	4	D30-8 to D30-	
			1			7		
	Н		 	-			F30-3 to F30- D41 to E41	-0
	\vdash		 	—		+		
	\vdash		 			+	F45 to F46	
				\vdash	\vdash	t		
ı				ì		1		

T	Т	DE-	IKIN ELMER	447	EDIAL 11	СТ				PART NUMBER	AEV
k	. ['	Mem	ory Products Division	MAII	ERIAL LI	3 1				301174-209	1
60.	1	TIT	LE ASSY. PWB. CONTROL	INTERFACE	MODEL _	20 SF	OTPI & ST		DATE _6		
301174-209	Ξź	EM O.	DESCRIPTION		PART NO.	REQD	REV.	ACT. REV.		REMARKS	
011	F	T	USE MATERIAL	LICT	301174-000					XT ASSEMBLY/USED	ON
ľ		1	AND ADD THE FOLLOWING:	1131	301174-000		1				
٦		50									
1	Ľ	51				L	L.,			·	
┙	-	52				<u> </u>	_	L_			
1	_	53				L_	<u> </u>	_			
	-	54				<u> </u>	_	_			
	-	55				\vdash		-	<u> </u>		
╝	-	56					_		ļ	A37 to A38	
	F	57	Jumper, Insulated		300648-001	21	-	_	Jumper	B14 to B15	
	\vdash	-				<u> </u>	-			B17 to B18	-
	\vdash	-				-	-	-		B10-1 to B10-	
	H	4				<u> </u>	-	├-		B10-6 to B10- B10-9 to B10-	
	⊦	-				-		-		B10-9 to B10-	
	┝	-				-	_	-		D20-3 to D20-	
	⊦	\dashv				 	-	 		D20-5 to D20-	
	H	-				-	-	-	 	D20-6 to D20-	
	H	7		_				-		D20-7 to D20-	
	H	\dashv					_		 	D20-13 to D20	-14
	H	7					-	<u> </u>		D30-1 to D30-	
	r						$\overline{}$			D30-3 to D30-	13
	r	\dashv								D30-6 to D30	
	Γ									D30-8 to D30-	10
										D30-9 to D30-	11
	Г									E6 to E8	
										F30-3 to F30-	6
										D41 to E41	
										F45 to F46	
	L					<u> </u>					
	L	_]						_			
	L					lacksquare	_				
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. 1				•				-	-T	PART NUMBER	D120
į	. '		FINER ELMER mory Products Division	MA	TERIAL LI	ST			-	301174-212	- nev
1	Н								Щ.	301174-212	
TAN INCHIBER	212		TLE _ASSY PWB. CO	NTROL INTERFACE	MODEL_	ŞF			DATE 10-	25-76 знеет	1 of _
	301174-212	ITEM NO.	DESCRIPTION	ON	PART NO.	REQD	REV.	ACT. REV.		REMARKS	
	301		USE M AND ADD THE FOLL	ATERIAL LIST OWING:	301174-000		E		NE)	CT ASSEMBLY/USED	ON
	Т	50									
		51									
		52				L.					
,	4	53				L_		Щ			
į.	-	54				L					
		55				<u> </u>	Ш	\Box			
ċ		56				<u> </u>		\Box		A37 to A38	
		57	Jumper, Insulate	d	300648-001	20		\vdash	Jumper	B14 to B15	
		_				-		\vdash		B17 to B18	
		_				<u> </u>	-	-		B10-1 to B1	
		-				<u> </u>				B10-6 to B1	
		<u> </u>				⊢				B10-9 to B1	
		<u> </u>				Ь	<u> </u>	\vdash		B10-11 to B	
		<u> </u>					-	\vdash		D20-1 to D2	
		_					<u> </u>			D20-3 to D2	
		<u> </u>						-		D20-6 to D2	
		-				_		\vdash		D20-7 to D2	
		_				_	_	-		D30-1 to D3	
		_					_			D30-3 to D3	
		<u> </u>				<u> </u>				D30-6 to D3	_
						<u> </u>		-		D30-8 to D3	
		-				-	-	\vdash		D30-9 to D3	U-11
		- -				\vdash	\vdash	$\vdash\vdash$		E6 to E8	0.6
		<u> </u>				├	\vdash	$\vdash\vdash$		F30-3 to F3	U-0
		-				\vdash	-	\vdash		D41 to E41	
		-				\vdash		$\vdash \vdash$		F45 to F46	
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FORM 209 (R,12/74)



¥		PHIN-ELMER nory Products Division	M.Z	TERIAL L	1 S T			301206-000 K
-000	ļ ,,,	ASSY. PWB. DATA ELECTRONIC	cs.	MODEL _	s	F,ST		DATE 10/2/75. SHEET 1 OF 5
301206-	ITEM NO.	DESCRIPTION		PART NO.	REQD	REV.	ACT. REV.	REMARKS
3012	F							NEXT ASSEMBLY/USED ON
							i	
T	1	Board, Processed.		301205-001	1	3		
١	2	Heat Sink		300135-001	1	Ť		
ı	3	I.C.	311	101022-001	3			C31,C35,D48.
1	4	I.C.	592	101032-001	2			B15,B34.
ı	5	I.C.	74LS00	123029-001	1_			C25.
l	6	I.C.	7406	100331-001	1			D25.
١	7	I.C.	74LS14	123047-001	1			C57.
_	8	I.C.	74LS86	123038-001	1			D34.
	9	I.C.	74\$132	123067-001	1			D15.
	10	I.C.	74504	123046-001	1			C59.
	11	I.C.	74574	123023-001	1			D57.
	12	1.C	75452	101031-001	2	$ldsymbol{ldsymbol{ldsymbol{eta}}}$	<u></u>	B53,B57.
	13	I.C.	7808HC	125005-008	1			F24.
	14	I.C.	7812HC	125006-012	1	L.,		G40.
	15	I.C.	79M05UC	125007-005	1			F28.
	16	I.C.	79MI2UC	125008-012	1			G30.
	17	I.C.	74LS02	123030-001	1	L		C13.
	18			<u> </u>	<u> </u>			
	19				1	<u> </u>		
	20	Transistor.	2N2222A	101052-001	8			D18,D43,D49,E15,E56,F53,F5
	ᆫ					_	Ь_	F63,
	21				<u> </u>		<u> </u>	<u> </u>
	22	Transistor.	2N2907A	101053-001	7		\vdash	C43,C49,D42,E16,F17,F21,F2
	23				\vdash		<u> </u>	
	24				1	<u> </u>	_	
	25	Diode, Rect.	1N4003	100127-001	3	<u> </u>	_	F20,F26, ,G17.
	26			 	1	<u> </u>	ļ	
	27	Diode.	1N5317	101034-001	35	<u> </u>	ـ	A24,A25,A26,A28,A29,A30,A3
	<u></u>			ļ	₩	<u> </u>	\vdash	A33,A35,A36,A41,A42,A43,A4
	<u></u>			ļ	↓	\vdash	₩	A46,A47,B46,B48,C8,C14,D53
	<u> </u>				₩	<u> </u>	↓_	D54,D55,D22,D20,E8,E9,E10,
	\vdash				₩	L	_	F48.F62,F58,E5,E47,E21,
	ш	RM 209 (R,12/74)			<u></u>	<u> </u>		F52

25	PE	RKIN-ELMER		TERIAL L	I S T			PART NUMBER	REV.
Š	Mer	nory Products Division	<u> </u>	ILNIAL L	-			301206-000	*
3	יוד	ASSY. PW DATA ELE	B. CTRONICS.	MODEL _		F,ST	DATE	10/2/75 SHEET 2	of _5
301206-000	ITEM NO.	DESCRIPT	ION	PART NO.	REQD	MIN. REV.	ACT. REV.	REMARKS	
717	H							NEXT ASSEMBLY/USED	ON
ň					ļ				
Г	28	-			\vdash				
ı	29	Diode, Zener.3.	9V IN5228B	101058-003	1	П	G57	· .	
l	30	Diode, " 4.	7V IN5230B	-005	1		E57	7.	
1	31	Diode, " 5.	6V IN5232 2%	107041-001	1		E25	i	
l	32	Diode, " 1	OV IN5240B	101058-015	2		E54	1,G53.	
l	33					$oxed{oxed}$			
l	34				_				
•	35				<u> </u>				
	36	Capacitor, Mica	. 62pf	100243-620	4	\perp	B2	,B25,C19,C23.	
	37				↓	_			
	38				₩	<u> </u>			
	39			ļ	<u> </u>	1	H		
	40	Capacitor, Cera			1	-	C7	150 150 DO D	20.010
	41	Capacitor, Cera	mic01uf	101042-103	20	H			39,C10,
	├-			ļ	├ ─	-		7,C40,C29,C56,C58, 3,E51,E52,A13,A14,B	
	42				1	├-	D29		20,010
	43	Capacitor.	.022uf	101004-223	4	\vdash		,A9,B18,B19,	
	44	Capacitor.	.022u1	-393	1	-	D14		
	45	Capacitor.	.047uf	101086-473	5	 		1,C32,F18,F23,F27.	
	46	Capacitor.	.07741	101000 170	+	\vdash	 -	,,	
	47	Capacitor, Tant	. 20V 2.2uf	101002-225	4		A6	0,F14,F15,F16	
	48	Capacitor, "	50V 3.3uf	100284-335	1	1	F1		
	49	Capacitor, "	35V 1uf	101003-105	2	1		F6.	
	50	Capacitor, "	20V 15uf	101002-156	2	Ĺ	_	0,654	
	51		,						
	52								
	53	Inductor.	luh	101074-010	1		B3	2.	
	54	Inductor.	27uh	-270	2		B2	1,022.	
	55	Inductor.	220uh.	122500-001	1		E1	1.	
	56			L	\perp				
	60				_	<u> </u>	oxdot		
				<u> </u>		i	<u> </u>		
	FO	RM 209 (R.12/74)							

1	¥		TKIN-ELMER For Products Division	M /	TERIAL L	ST			301206-000 K
	00	TI	ASSY. PWB. DATA ELECTRONICS	5	MODEL _	SF	,st		DATE 10/2/75 SHEET 3 OF 5
	0-90	ITEM NO.	DESCRIPTION		PART NO.	REQD	MIN. REV.	ACT.	REMARKS
	301206-000								NEXT ASSEMBLY/USED ON
l	_	61				┝	\vdash	 —	
		62				 	\vdash	-	
		63	Resistor, Variable.	2K	138000-202	2	 	 	G26 ,G22
	١,	64	neorioon, furnables			<u> </u>	_	\vdash	
	ı	65	Resistor, 5%, W	47	-470	1	 	\vdash	C38
	ı	66	Resistor,5% ¼W.	10	101156-100	7		T	B36,B37,C46,F19,F51,G20,F
	П	67	Resistor," "	33	-330	1	1	1	C39
-	J	68	Resistor," "	56	-560	5	t	T	A58,D44,D45,G56,G58.
		69	Resistor," "	100	-101	1	<u>† </u>	\vdash	B38
		70	Resistor," "	120	-121	1	†	\vdash	D21.
		71	Resistor," "	150	-151	2			A10,A11.
		72	Resistor," "	270	-271	4			G15,G16,G18,G19.
		73	Resistor," "	390	-391	3			C44,C45,E58.
		74	Resistor," "	430	-431	1			G52.
		75	Resistor," "	470	-471	5			B22,C15,C16,C21,G51.
		76	Resistor," "	560	-561	1	Г		D39.
		77	Resistor," "	680	-681	4			D38,E13,E18,F13
		78	Resistor," "	820	-821	1			D32.
		79	Resistor," "	1K	-102	8			E23, ,E35,D12,D10,
									G50,G55,A15,A16
		80	Resistor,5% ¼W.	1.5K	101156-152	4			A20, C28,D46,B23
		81	Resistor," "	2.2K	-222	8			A17,A19,C9,D30,D31,D52E48
		82	Resistor," "	2.7K	-272	2			E26 F49
		83	Resistor," "	5.1K	-512	2			D11,E7.
		84	Resistor," "	7.5K	-752	2			E17,D13
		85	Resistor," "	10K	-103	16	<u> </u>	L	A37,A38,A49,A53,A57,B45,
							<u>L</u>		B47,C36,C41,C34,E53
							L_		F59,F60, A54,D41,E49
		86	Resistor,5% ¼W.	12K	101156-123	2	<u> </u>	$oxed{}$	D23, E22.
		87			<u> </u>	$ldsymbol{oxed}$	<u> </u>	L_	
		88	Resistor," "	30K	-303	1	lacksquare	<u> </u>	D36
		89	Resistor," "	39K	-393	1	\vdash	\vdash	D33

	¥		PIKIN-ELMER mory Products Division	MATERIAL L	.1 S T			301206-000 K
į	000	TIT	ASSY. PWB. DATA ELECTRONICS.	MODEL	SF,	ST		DATE 10/2/75 SHEET 4 OF 5
PARI NOMBER	-90	ITEM NO.	DESCRIPTION	PART NO.	REQD	REV.	ACT.	REMARKS
	301206-000	NO.	*	T T	T			NEXT ASSEMBLY/USED ON
ل	_	-00	Resistor, 5%, %W. 43	K 101156-433	1	 	\vdash	E41.
	П	91	, 100130013 0%, 41.	151150 155	+-	\vdash		
	١	_	Resistor, " " ,681	-683	2	\vdash	\vdash	E50,D40
_	┨	92	Resistor, " 100		_	\vdash	\vdash	A51,A52,A55,A56,F61.
		93	Resiscoi, acc.			\vdash		C37
	1	95	10013 0013 0 NJ411 0.		Ť	 	-	
	1	96	Resistor, " " 510	-514	1	├	—	E20
_	J	97	Resistor, 510	-514	+-	┰	-	E20
		98	Pin, Wire Wrap	100360-001	4	-	\vdash	A21,B27,C30,E60
		99	<u>-</u>		+	\vdash	 	
		100	Pin Connector.	100377-002 101133-001	4	├-	\vdash	E19,24 C33 J24,J25,J26,J27.
		101	connector.	101133-001	┿	╌		024,023,020,027.
		102	Screw, Pan Hd.	100036-208	1 2	-	+	4-40 X ½
		103	Washer.	100030-200	-	\vdash	-	No. 4.
		103	Washer, Spring Lock.	100047-200		├	-	No. 4.
		105	Nut.	100042-200		┢		4-40.
		106	Insulator, Mica.	100147-001	1 2	\vdash	-	Use with G30, G40,
		107	Washer, Nylon Shoulder.	100063-014			-	Use with G30, G40.
		107	Silicon Grease.	120100-001	_	⊢		Apply to both sides of
		100	3111con drease.	120100-001	A/K	╁┈	-	item. 106.
		109			+	-	-	Tuen. 100.
		110	Rework Instructions	301770-001	-	├		THE C C O CO. C TO
		110	REWORK INSCRUCTIONS	301770-001	1.	├		REV R, C, D PRIC BD.
			Printed Master.	301204-001	0	Н	-	·. · · · · · · · · · · · · · · · · · ·
			Schematic.	301207 - 001	0	E		
			Specification	301442-001	0			
			Test Procedure	900101-001	0			
			Test Specification	900116-001	0			
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REV.		PE	PKIN-ELMER	MATE	RIAL L	СT				PART NUMBE	R	REV.
ä			mary Products Division			=			l	301206-00	1	K
PART NUMBER	100		Assy. Pwb. Data Elect 2200 BPI - 1500 RPM.	rontcs	MODEL				DATE	10/2/75 _{SHE}	ET <u>1</u>	of1
Į.	301206-001	ITEM NO.	DESCRIPTION		PART NO.	REQD	REV.	ACT. REV.		REMARKS		
PAR	301		USE MATERIAL L AND ADD THE FOLLOWING:	IST 3	01206-000		J		H	NEXT ASSEMBLY/	USED ON	
	T	110	Resistor, 1%, 뉗.	3	02075-002	1			E24.	. Test Select	(150 t	o 243)
DATE	_	111	Resistor, 1%, ¼W.	3	302075-003	1			E19.	Test Select	(316 1	to 825)
APPROVED		112	Resistor, 5%, W. 1.	.8K 1	01156-182	1			C48-			
¥		113	Resistor, 5%, \dag{w}. 51	00 1	01156-512	1			A34.			
		114	Resistor, 5%, 뇋. 3	30 1	01156-331	1			B14-			
		115	Capacitor. 100	pf 1	00243-101	1			B16.			
		116	Capacitor. 100	pf 1	00243-101	1			B17.			
		117		\perp								
		118	Resistor	3	02075-001	1			C33	test select (1.00	to 504
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		FOR	M 209 (R,12/74)									

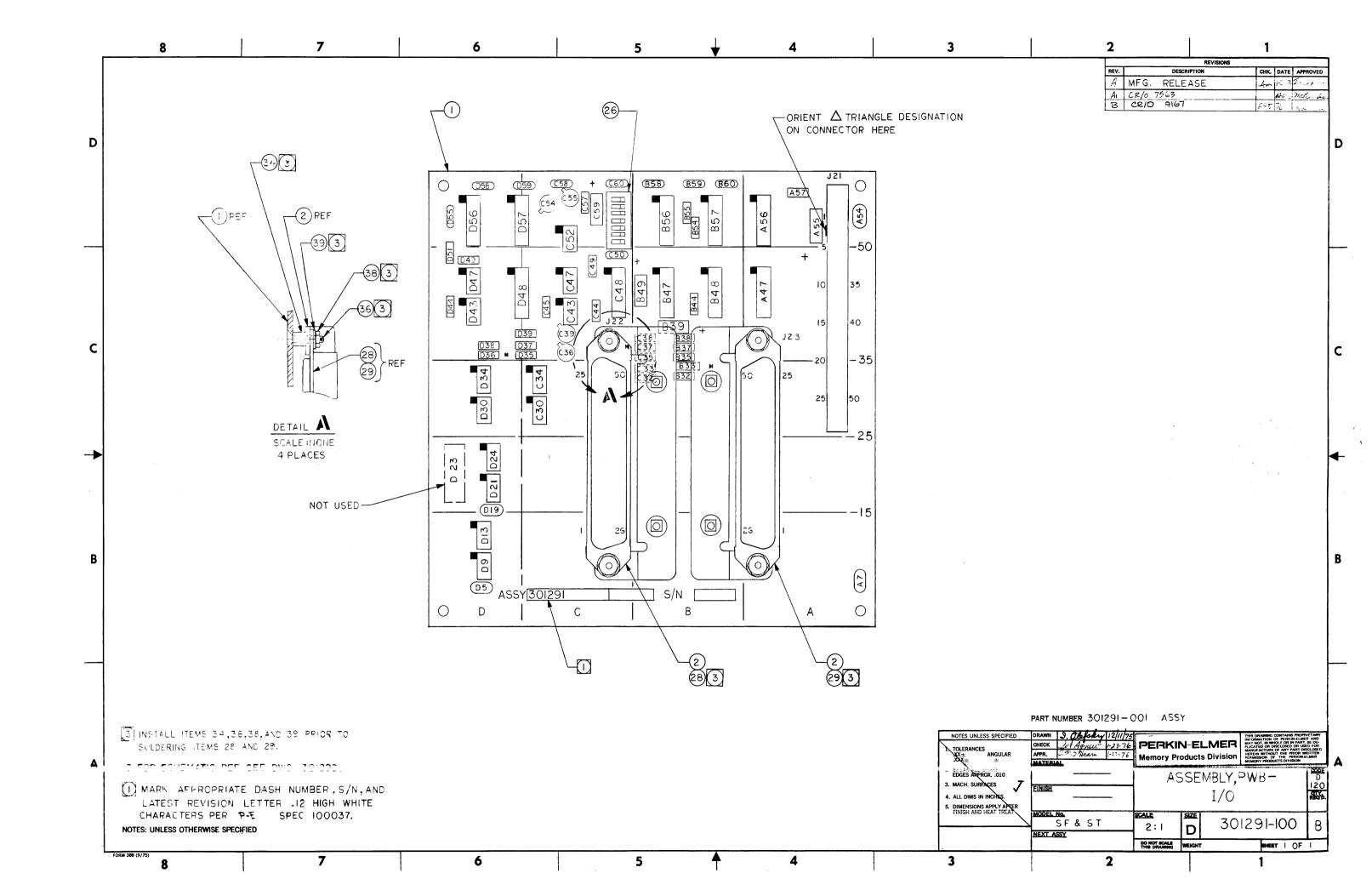
ž	X		PIKIN-ELMER	MA	TERIAL L	IST				PART NUMBER	REV.
-	\vdash	Mar	mory Products Division	_					l	301206-002	K
	301206-002		Assy. Pwb. Data El 2200 BPI - 2400 RF	ectronics. M.					DATE .	10/2/75 SHEET 1	of 1
ANI NOMBER	1206	NO.	DESCRIPTION		PART NO.	REQD	REV.	ACT. REV.		REMARKS	
5	30		USE MATE	RIAL LIST	301206-000		J		4	NEXT ASSEMBLY/USED 0	ON
	ŗ	110	Resistor, 1%, %W.		302075-002	1			E24.	Test Select (150	to 243
ï		111	Resistor, 1%, ¼W.		302075-003	1			E19.	Test Select (316	to 825
- !		112	Resistor, 5%, ¼W.	1.8K	101156-182	1			C48.		
Y O Y		113	Resistor, 5%, ¼W.	3K	101156-302	1			A34.		
		114	Resistor, 5%, ¼W.	330	101156-331	1			B14.		
		115	Capacitor, Mica.	68pf	100243-680	1			B16.		
		116	Capacitor, Mica.	100pf	100243-101	1			B17.		
		117									
		118	Resistor		302075-001	1			C33.1	test select(1.00	to 50-
				-							
	Ü										
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REV.	7:		FIKIN-ELMER nory Products Division	MA	TERIAL L	IST				_	301206-004	REV.
	40	ĺ	ASSY. PWB. DATA	ELECTRONICS	. MODEL	SF	& ST		DATE		75 SHEET	
PART NUMBER	301206-004	ITEM NO.	DESCRIPTION		PART NO.	REQD	REV.	ACT.			REMARKS	
PART	3012		USE MAT	ERIAL LIST	301206-000	Ì		1		NEXT	ASSEMBLY/US	ED ON
-			AND ADD THE FOLLOWIN	G:			J					
	.)	110	Resistor, 1%, 낺W.		302075-002	1			E24.	test	select(150	to 243 n
	3					<u> </u>	_	_			1 1/016	
	7	111	Resistor, 1%, ¼W.		302075-003	1	-	-	£19.	test	select(316	to 825A
VED.	b	112	Resistor, 5%, 날W.	1500	101156-152	1	_	\vdash	C48			
APPROVED	1											
٠,	٤					_	_	L.	_			
		113	Resistor, 5%, ¼W.	5100	101156-512	1	-		A34	•		
		114	Resistor, 5%, %W.	56	101156-560	1		-	B14			
			T								_	
		115	Capacitor, Mica.	68pf	100243-680	1			B16			
		176	Capacitor, Mica.	68pf	100243-680	1		<u> </u>	D17			
		110	capacitor, mica.	борт	100243-000	+-		-	B17	•		
		117	Capacitor, Mica.	15pf	100243-150	1			B 35			
		118	Resistor		302075-001	1		<u> </u>	C33.	test	select(1.0	0 to 50 n
		\vdash				┢	-		┢			
		Н				\vdash		\vdash	-			
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		Н	·			<u> </u>	_	<u> </u>	<u> </u>			
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	0	Н				+	-	\vdash	+-			
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									PART NUMBER	D120
Š	×		TRKIN-ELMER mory Products Division	M.A	TERIAL L	IST			301206-005	17
100	900	l	ASSY. PWB. DATA ELEM	CTRONICS PM		00TP1			DATE 3-12-76 SHEET	
PAH NOMBEH	301206-005	NO,	DESCRIPTION		PART NO.	REQD	REV.	ACT. REV.	REMARKS	
Ċ	301		USE MATERIA	AL LIST	301206-000		T_		NEXT ASSEMBLY/USE	D ON
			AND ADD THE FOLLOWING:				٦,		400000 & 400001	
14/27/10	3	110	Resistor, 1%, ¼W		302075-002	1			E24. Test Select (150	to 243)
7	2									
č		111	Resistor, 1%, 뉳		302075-005	1			E19. Test Select (308	to 1100
7	Į.					_	<u> </u>	_		
_	اد	112	Resistor, 5%, 뇋	1.8K	101156-182	1		_	C48.	
•		112	Resistor, 5%, ¼W	3K	101156-302	1	<u> </u>	⊢	A34.	
Š	J	113	Resiscor, Sa, AM	JK	1011302302	1		<u> </u>	A34.	
		114	Resistor, 5%, W	330	101156-331	1	_	-	B14.	
					101100 001	١		_		
		115	Capacitor, Mica	100pf	100243-101	1			B16.	
						\vdash	_			
		116	Capacitor, Mica	100pf	100243-101	1	\vdash		B17.	
		117	Capacitor, Mica	15pf	100243-150	1			B35.	
		118	Resistor		302075-001	1			C33.test select(1.00	to 50-
		_								
		_					_			
		_		<u> </u>			ш			
						\vdash	_			
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١.	PE	PKIN-ELMER	H Y	TERIAL L	ST			PART NUMBER RE
×		nory Products Division	===		=			301206-006 K
900	тт	ASSY, PWB. DATA ELE 2200 BPI - 2400 R		MODEL 1	00 TP	I.S	F,ST	DATE 3-12-76 SHEET 1 OF _
9	ITEM NO.	DESCRIPTION		PART NO.	REQD	REV.	ACT. REV.	REMARKS
301206-006		USE MATERIA	LIIST	301206-000		J		NEXT ASSEMBLY/USED ON
		AND ADD THE FOLLOWING:		301200-000)	L	400000 & 400001
1	110	Resistor, 1%, ¼W		302075-002	1			E24.Test Select (150 to 24
ı	111	Resistor, 1%, ¼W		302075-003	1		-	E19. Test Select (316 to 82
┨	-111	RESISTOR, IN, AM		3020/5-003	+		┢	213. 1621 Select (\$10 to 62
l	112	Resistor, 5%, ¼W	1.,8K	101156-182	1			C48.
l								
l	113	Resistor, 5%, ¼W	3K	101156-302	1			A34.
	_			101150 000	ļ.,	<u> </u>	<u> </u>	
	114	Resistor, 5%, 뉳W	330	101156-331	1	\vdash	_	B14.
	115	Capacitor, Mica	68pf	100243-680	1	\vdash	\vdash	B16.
	<u> </u>			2002.0 000	Ė			
	116	Capacitor, Mica	100pf	100243-101	1			B17.
	匚							
	117	Capacitor, Mica	15pf	100243-150	1		_	B35.
	110	Dociston		302075-001	1		<u> </u>	C33.test select(1.00 to 5
	118	Resistor		3020/3-001	+	-		coo.test select(1.00 to 50
	一							
					Ι_			
	H			ļ	<u> </u>		<u> </u>	
	\vdash				<u> </u>	-	-	
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•	<u> </u>				Ь.	\vdash	L	

REV.	6	PE	FIKIN-ELMER nory Products Division	MA	TERIAL L	IST			PART NUMBER RE
1	800	TIT	ASSY. PWB. DATA EL 2200 BPI - 2400R	ECTRONICS		200TI	PI SF	&ST	301206-008
PART NUMBER	206-	NO.	DESCRIPTION		PART NO.	REQD	REV.	ACT. REV.	REMARKS
PAR	301		USE MATERI AND ADD THE FOLLOWING:		301206-000		\mathcal{J}		NEXT ASSEMBLY/USED ON 400000
	Т	110	Resistor, 1%,堿W.		302075-004	1			E24.test select(127 to 154
DATE.	Ш								
-	41	111	Resistor, 1%, W.		302075-005	1		-	E19.test select(287 to 1.1
APPROVED	П	112	Resistor, 5%,%W.	910	101156-911	1			C48.
₹ :		113	Resistor, 5%,뇒W	2K	101156-202	1			A34.
		114	Resistor, 5%, W	330	101156-331	1			B14.
		115	Capacitor, Mica	68pf	100243-680	1			B16.
		116	Capacitor, Mica	100pf	100243-101	1			B17.
		117		_		\vdash			
		110	Resistor		302075-001	1			C33.test select(1.00 to 50
		110	RESTSTOF	**	302075-001	Ĺ			C55. test serect(1.00 to 50
		_				F			
						L			
						${f +}$	\vdash		



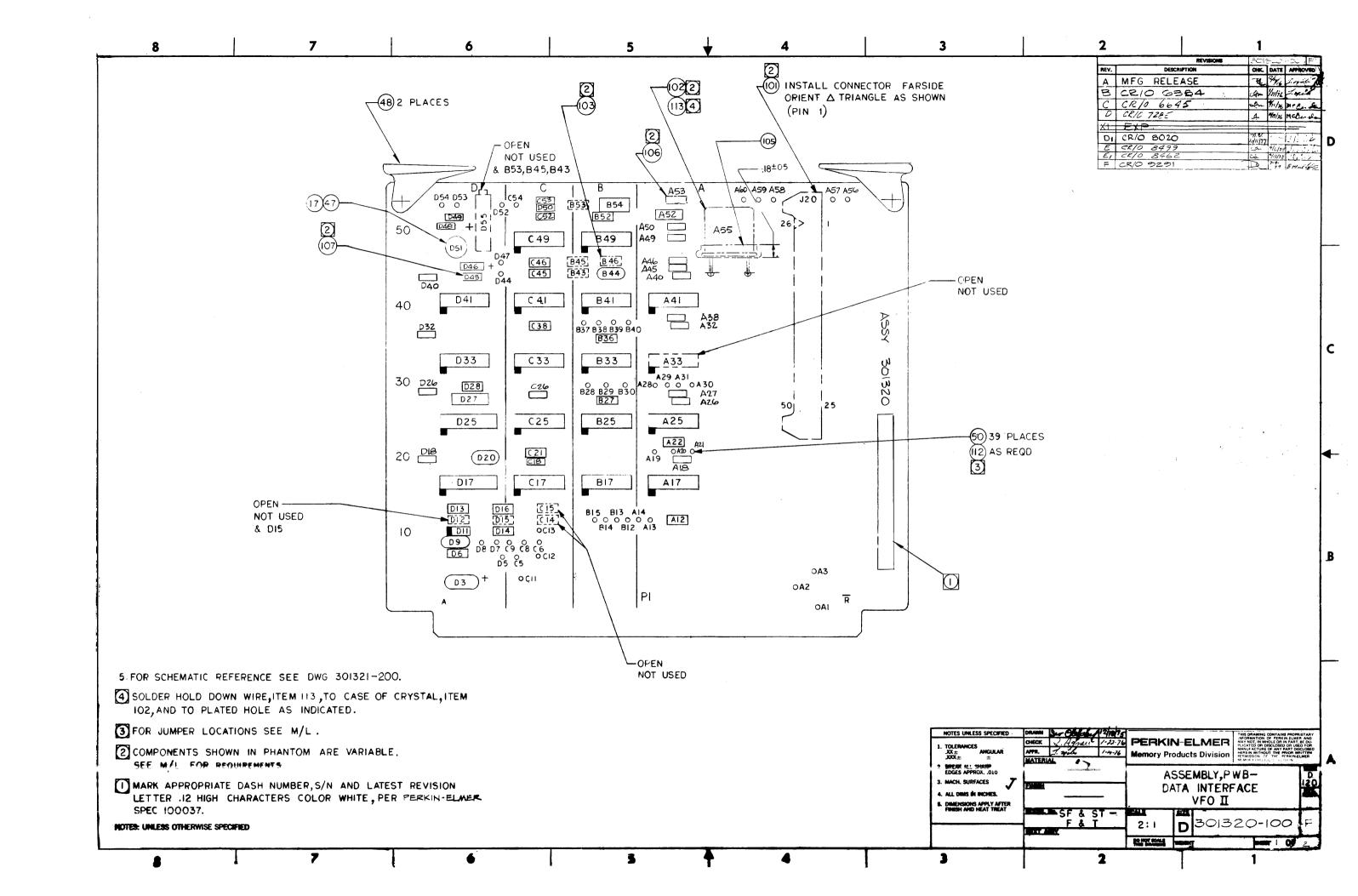
	_			_							D120
>		Pt	ERKIN ELMER	4.4	TERIAL L	IST				PART NUMBER	REV.
REV.	j.	Me	mory Products Division	=	TERRIAL E	<u> </u>				301291-001	[원]
BER	-001	TI	TLE ASSY. PWB. I/O		MODEL _	SF,	ST		DATE	1-16-76 SHEET 1	of <u>.3</u>
PART NUMBER	91-0	ITEM NO.	DESCRIPTION		PART NO.	REQD	MIN. REV.	ACT. REV.	Γ	REMARKS	
F	301291	NO.								NEXT ASSEMBLY/USED OF	
^	'n										
	7	1	Board, Processed		301290-001	1	E	\vdash			
Ľ		2	Retainer, Connector-Bottom		300589-001	2			Use	with item 28 and 2	9
DATE		_			100329-001	1	\vdash		057	· · · · · · · · · · · · · · · · · · ·	
_	1	4	I.C.	7404	100330-001	1			B56		
S.		5	I.C. 8T 380 or	8836	100347-001	5			A47	A56,847,B48,B57	
APPROVED		6	I.C.	7403	101007-001	1			056		
AB	П	7	I.C. 7	5452	101031-001	12			C30.	,C34,C43,C47,D9,D13	١,
	ر									,D24,D34,D30,D43,D4	
		8	I.C.	7414	123001-001	1	<u> </u>		C48		
		9	I.C. 74	LS08	123032-001	1	\Box		048		
		10	Diode, Rectifier 1N	4003	100127-001	1			D36		
		11	I.C. 7	5451	101139-001	1			C52		
		12									
		13	Capacitor, Tant. 6v	56uf	101001-566	3			649	, C59, B39	
		14	Capacitor, Tant. 20v	15uf	101002-156	1			A55		
		15	Capacitor, Cer. 50v 0	.luf	101087-104	4			A7 ,	A54,D5,D55	
		16	Capacitor, Cer. 100v 0.	01uf	101042-103	10			B58.	B59,B60,C50,C58,C6	0
									D19.	,D58, D59	
		17			r						
		18	RESISTOR, 5 % % W'	56	101156-560	1			032		
		19	Resistor, 5%, 1/4W	75	101156-750	1			A57		
		20	Resistor, 5%, "	510	-511	1			B44		
		21	Resistor, 5%, "	1K	-102	4			B54	,B55,D38,D51, C57	
		22	Resistor, 5%, "	10K	-103	7			035	,D37,D39,C44,D44,C4	5,D49
		23	RESISTOR, 5% "	100	-101	4			038	, C33, B35, B38	
		24	RESISTOR, 5%, "	160	-161	2			837	, C35	
		25	RESISTOR, 5%, "	390	-391	1			832		
		26	Switch, Rocker, DIP		149002-007	1			056		
		27					L				
		28	Connector, Male 50	pin	101036-001	1			J22		
		29	Connector, Female 50	pin	101037-001	1			J23		

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REV.	ď		ERKIN-ELMER emory Products Division	MATERIAL L	IST				PART N		REV
-	_		TLE ASSY. PWB. I/O	MODEL	SE.S	T.				2 2	<u> B</u>
NUMBER	301291-001	ITEM NO.		PART NO.	REGD			DATE	REMA		. OF
PARTN	129	NO.	DESCRIPTION	PART NO.	HEGD	REV.	REV.	<u> </u>			
ď	30							┝	NEXT ASSEM	BLY/USED C	iN .
_	Т	30	Connector, Male 50 p	in 101040-001	1	 	-	J21			
		31	DIOPE, ZENER IN5228	101058-003	1			B33			
		32	DIODE IN5317	10134-001	1			C37			
_	1	33	TRANSISTOR 2N2222A		3			C54	, C39, C56		
			Spacer	100093-030	4						
	П	35			T						
	Ш	36	Screw, Flat Head 820	100040-106	4			2-5	6 x 3/8"		
_	ر	37					i				
		38	Nut, Hex	100043-100	4			2-5	6		
		39	Washer, Flat	100047-100	4			No.	2		
		40			1						
		41			1						
		42			T						
			Schematic	301292-001	0	В					
			Printed Master	301289-001	0	В					
			Specification	301440-001	0						
			Test Procedure	900112-001	0						
			Test Specification	900113-001	0						
					-						
			_					Π			

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		RKIN ELMER nory Products Division	<u> </u>	ATERIAL L	1 S T				301320-000	RE'
	TI.	ASSEMBLY, PWB. DATA INTERFACE	, VFO II	MODELS	F&ST,	F&T	_	DATE	9/4/75 SHEET 1	OF_
301320-000	ITEM NO.	DESCRIPTION		PART NO.	REOD	REV.	ACT. REV.		REMARKS	
1351					Г				NEXT ASSEMBLY/USED	ON
Š					L	Ш				
	1	Roard, Processed.		301319-001	1	\vdash				
	2				<u> </u>	L_				
1	3			1	_	 				
	4	I.C.	9602	100234-001	1			D25		
ı	5	I.C.	74500	123028-001	1	\sqcup		A41		
1	6	I.C.	4024	100344-001	1	\vdash		B49		
1	7	I.C.	4044	190345-091	1	\sqcup		C49		
ı	8	I.C.	8T20B	101024-001	1	\sqcup		017		
	9	I.C.	74574	123023-001	1	Ш		941		
	11	I.C.	74LS00	123029-001	1	Ш		D33		
1	11	I.C.	74504	123046-001	1	Ш		B17		
1	12	I.C.	74LS08	123932-001	2	Ш		B41	.C25.	
ı	13	1.0.	74LS11	123034-001	1	Ш		A25.		
	14	I.C.	74LS32	123035-001	2	Ш		B25	,C33.	
	15	I.C.	74LS74	123036-001	3	Li		B33	C17,C41.	
	16	I.C.	74508	123050-001	.1			A17		
ı	17	I.C.	78M05	125005-005	1			D51.		
	18			<u> </u>						
Ì	19									
ı	20	Diode, Zener	1N5231B	101058-006	1			D11.		
1	21									
	22									
	23	Capacitor, Mica.	33pf	100243-330	1				D20.	
1	24	Capacitor, Mica.	47pf	-470	1			B44.		
1	25	Capacitor, Mica.	510pf	-511	1			B54,		
Į	26					\Box				
1	27	Capacitor	.015uf	100078-562	1			A45		
	28	Capacitor, Poly.	.0027uf	100165-272	1			D27.		
	29	Capacitor, Poly.	.00 4 7uf	-472	1			A52.		
	30	Capacitor, Poly.	.01uf	101042-103	12			A18,	A26,A32,A40,C18,C	26,D9
									D26,D32,D40,D50.	
	32	Capacitor, 20v.	2.2uf	101002-225	2			D46,		
	33	Capacitor, 6v.	56uf	101001-566	1	\Box		D3.		

REV.	4		ERKIN-ELMER mory Products Division	M.A	TERIAL LI	ST		301320-000 F
BEH	0	ı	ASSEMBLY. PWB. DATA, INTERFACE,				ST,F&T	301320-000 F DATE 9/4/75 SHEET 2 OF 2
NUMBER	0-0	ITEM NO.	DESCRIPTION		PART NO.	REQD	REV. REV.	REMARKS
PART	301320-000	Г						NEXT ASSEMBLY/USED ON
	_	34	Resistor, 5%, WW.	10	101156-100	2		D14,D16.
	ı	35	Resistor, " "	75	-750	3		A12,A22,A27.
	П	36		-				
_	1	37	Resistor, " "	240	-241	1		D6.
	П	38	Resistor, " "	200	-201	1		D49.
	П	39	Resistor, " "	330	-331	2		A38, A46
	ı	40	Resistor, " "	1K	-102	9		A50,B27,B36,C21,C38,C45,
_	٠							C46,C52,C53,
		42	Resistor, 5%, 뇋W.	1.2K	101156-122	1		B52.
		43						
		44	Resistor, " "	10K	-103	2		D13,D28.
		45	Resistor " "	510	-511	1		A49
		4 6						
		47	Pad Transistor		100223-001	1		Used with Item 17
		48	Extractor, Card.		107901-001	2		
		49						
		50	Pin Connector	.025SQ	100360-001	44	L	A1,2,3,13,14,19,20,21,28,
		<u> </u>				L_		A29,30,31,56,57,58,59,60,
		L						B12,13,14,15,28,29,30,37,
		L						B38,39,40,C5,6,8,9,11,12,
		L_				<u> </u>		C13,54,D5,7,8,44,47,52,63
		L.				L_	\vdash	D54
		56	Schematic		301321- 200	0	-	
		57	Printed Master		301318-001	0.	\vdash	
		58	Test Procedure		900104-001	0	\vdash	
		59	Test Specification		900105-001	0	\vdash	
		60	Specification		301431-001	۰	$\vdash\vdash\vdash$	
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_		150	WRITE - DF DORPM. READ - PULSE 'D	' 1562 KHZ.	·				D120
YEV.	W		RKIN-ELMER	ATERIAL L	IST			PART NUMBER	REV.
1	0	Me	mory Products Division		=			301320-001	E
PART NUMBER	301320-001		ASSY, PWB. DATA, INTERFACE, VFO.II	MODEL		DATE	9/4/75 SHEET 1 OF 1		
	320	ITEM NO.	DESCRIPTION	PART NO.	REQD	REV.	ACT. REV.	REMARKS	
	301		USE MATERIAL LIS	T 301320-000		Ε		NEXT ASSEMBLY/USED	ON
DATE 7									
į		102	Crystal	101059-002	1			A55.	
Ļ	12	103	Capacitor. 20pf	100243-200	1			B46.	
_	٩ ا	105	Tubing, Thermofit	100185-009	A/R			Use with item 102.	
٥	٥	106	Capacitor0027uf	101004-272	1			Á53.	
١	10	107	Resistor, 1%, 뇋W. 6.34K	100155-366	1			D45.	
•	ك	112	Wire, Solid Insulated.	300648-001	A/R	_		Jumper A20 to A21.	
								Jumper B39 to B40.	
								Jumper B28 to B29.	
								Jumper A28 to A30.	
								Jumper D44 to D47.	
		М						Jumper B13 to B14.	
		П		 				Jumper B12 to A13.	
		Н						Jumper C6 to C8.	-
		М				_		Jumper C9 to D8.	
		М		1				Jumper C5 to D5.	
								Jumper A2 to A3	
		113	Wire, Solid	100051-024	A/R			Hold Down Wire for I	tom 10
			7110, 00110	100001 024	IV K			nord power wife for I	cem It
		114	Rework Inst	301777-001	- 0				
		<u> </u>			├				
		\vdash		-	\vdash				
		\vdash			├-				
		\vdash			\vdash		\vdash		
		Н		1		_	_		
		FO	RM 209 (R.12/74)		ــــــــــــــــــــــــــــــــــــــ	_	Ь—		

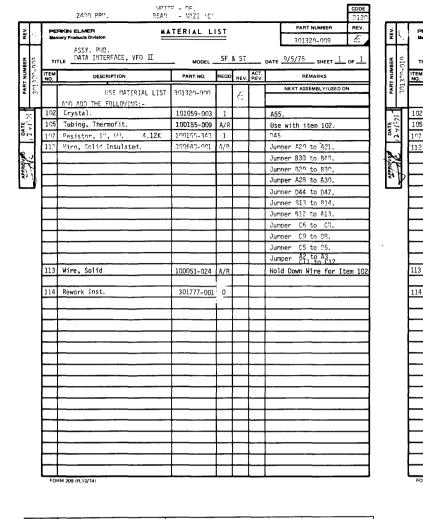
_			WRITE - DF 1500RPM. READ = NRZI 'C'	15	62 KI	IZ.		D12
REV.	ų i		RKIN-ELMER M.	ATERIAL L	I S T			PART NUMBER REV
18	7	Me	mory Products Division		=			301320-002
PART NUMBER	301320-002	TI	ASSY. PWB. DATA, INTERFACE, VFO. II					DATE
TNU	320	ITEM NO.	DESCRIPTION	PART NO.	REQD	REV.	ACT. REV.	REMARKS
			USE MATERIAL LIST AND ADD THE FOLLOWING:-	301320-000		Ë		NEXT ASSEMBLY/USED ON
DATE	7	102	Crystal	101059-002	1			A55.
٤,	3	103	Capacitor. 20pf	100243-200	1			B46
۱ ۵	4	105	Tubing, Thermofit	100185-009	A/R			Use with item 102.
	۱۲	106	Capacitor, .0027uf	101004-272	1			A53.
Ą	اه	107	Resistor, 1%, W. 6.34K	100155-366	1			045.
1	3							
₹'	۹.	112	Wire, Solid Insulated.	300648-001	A/R			Jumper A20 to A21.
_	۱ ر							Jumper B38 to B40.
		П		1				Jumper B29 to B30.
		П		1		-		Jumper A28 to A30.
		П		1		_		Jumper 944 to D47.
								Jumper B13 to B14.
								Jumper B12 to A13.
							_	Jumper C6 to C8.
								Jumper C9 to D8.
				1				Jumper C5 to D5.
								Jumper A2 to A3
		113	Wire, Solid	100051-024	A/R			Hold Down Wire for Item 10
	ı	114	Rework Inst.	301777-001	: 0			
			-					
		\vdash		ļ	Н			
		\vdash			Н	_		
	- 1	ليا	IM 209 (R,12/74)	L	ш			

1	WANGCO MA	TERIAL L	1 S T			301320-004 E
,	ASSY. PMB. DATA INTERFACE, VFO II	MODEL _	SF &	ST	,	DATE <u>9/5/75</u> SHEET 1 OF 1
ITEN NO.	DESCRIPTION	PART NO.	REOD	REV.	ACT. REV.	REMARKS
	USE MATERIAL LIST	301329-999		i.		NEXT ASSEMBLY/USED ON
100	Crystal.	101059-002	1		\exists	A55.
103	Capacitor. 20nf	100243-200	1			R46.
105	Tubing, Thermofit.	100185-009	A/R			Use with item 102.
106 107	 	101004-272 100155-366	1			A53. D45.
112	Wire, Solid Insulated.	300648-001	A/R			Jumper A19 to A20.
L			-	\vdash	\dashv	Jumper A23 to A29. Jumper B38 to B40.
Н	· · · · · · · · · · · · · · · · · · ·			\vdash	_	Jumper B29 to B30.
Г						Jumper B13 to B14.
						Jumper B12 to A13.
						Jumper C6 to C8.
						Jumper C9 to D8.
L				<u> </u>		Jumper C5 to D5.
			L_	\vdash		Jumper D44 to D47.
-			<u> </u>	\vdash	_	Jumper A2 to A3 Jumper C11 to C12
113	Wire, Solid	100051-024	A/R	\vdash	-	Hold Down Wire for Item 10
114	Rework Inst.	301777-001	0			
F						
L					. 1	

_	1	WRITE - NRZI 1 500RPM, READ - NRZI	'C'					Ÿ	D120
J		PKIN-ELMER # /	TERIAL L	IST				PART NUMBER	REV.
' J	Ме	mory Products Division		_				301320-005	ϵ
301320-005		ASSY. PWB. TLE DATA INTERFACE, VFO II	MODEL _	SF &			DATE	9/5/75 SHEET	1_ of 1
	NO.	DESCRIPTION	PART NO.	REQD	REV.	ACT. REV.		REMARKS	
		USE MATERIAL LIST AND AND THE FOLLOWING:-	301320-000		Ε			NEXT ASSEMBLY/USED	ON
l	_			_	_	L			
l	102	Crystal.	101059-004	1			A55		
l	100			<u> </u>		_			
	103	Capacitor. 20pf	100243-200	1	<u> </u>	\vdash	B46	i	
	105	Tubing, Thermofit.	100185-009	A/R		\vdash	llee	with itom 102	
l	106	Capacitor0027uf	101004-272	1			A53	with item 102.	
ı	107	Resistor, 1%, 14. 6.34K	100155-366	†		_	D45		
			1	1		_	545	•	
	П								
	112	Wire, Solid Insulated.	300648-001	A/R			Jum	per A19 to A20.	
							_	per A28 to A29.	
							Jum	per 838 to 840.	
							Jum	per B29 to B30.	
	Ш						Jum	per B13 to B14.	
	Щ		<u> </u>				Jum	per 812 to A13.	
	Ш			_				per C6 to C8.	
	Н		<u> </u>					per C9 to D8.	
	Н		ļ			_		per C5 to D5.	
	Н		ļ		-			per D44 to D47.	
	112	Utua Calid	1000F1 07:		<u> </u>			per cii to cii	
	113	Wire, Solid	100051-024	A/R		\vdash	Hol	d Down Wire for I	tem 10
	114	Rework Inst.	301777-001	· n	\vdash	\vdash			
	H		301/// 001	Ť	\vdash	Н	-		
	Н		 	-	-	\vdash			
	Н		 	\vdash		-			
	Н		l	Н	_	Н			
	Н		1	П	_				
	П								
							-		

		150	ORPM READ -	DF UNDISCRIMI	NATED 1562	KHZ					0120
	2	PE	PIKIN-ELMER		TERIAL L	I S T				PART NUMBER	REV.
É	8	Мо	mory Products Division	===	TENTAL L	=				301320-006	B
	301320-006		ASSY., PWB. TLE DATA, INTERFACE,	VFO II	MODEL SF & ST DATE 1-18-77 SHEET.						
	320	NO.	DESCRIPTION		PART NO.	RECO	REV.	ACT. REV,		REMARKS	
	301		USE MATE AND ADD THE FOLLOWIN	ERIAL LIST NG:	301320-000		E			NEXT ASSEMBLY/USED (ж
10		Ц.							_		
11-0-00	٥	_	Crystal		101059-002	1			A55		
Š	3		Capacitor	20pf	100243-200	_	_		B46		
1	λ I		Tubing, Thermofit		100185-009	A/R	ļ			with Item 102	
0.0	ž	-	Capacitor	.0027uf	101004-272	1	<u> </u>		A53		
9	100	107	Resistor, 1%,場W	6.34K	100155-366	1			D45		
	٤	112	Wire, Solid Insulate	ed.	300648-001	12			Jump	per A20 to A21	
										B37 to B40	
										B28 to B29	
										A28 to A30	
					I					D44 to D47	
										B13 to B14	
										B12 to A13	
										C6 to C8	
					I					C9 to D8	
										C5 to D5	
										A2 to A3	
										C11 to C12	
		113	Wire, Solid		100051-024	A/R			Hold	Down Wire for It	m 102
						H	_	_	┢		
		Ш									
						\vdash	_				
		L.,							_		
						$ldsymbol{\sqcup}$			_		
						Ш			<u></u>		
					L						

			WRI 2400RPM RE	TE - NRZI 'AD - NRZI 'C'				_	0DE
lì	1	DE	RKIN-ELMER		15 T				EV.
Ų	J		sory Products Division	MATERIAL L	131			301320-007	<u>~</u>
700-	3		ASSY. PWB. DATA INTERFACE, VFO	∏ MODEL				DATE 9/5/75 SHEET 1 OF	1
5		ITEM NO.	DESCRIPTION	PART NO.	REQD	REV.	ACT. REV.	REMARKS	
301320-007	,		USE MATERIA AND ADD THE FOLLOWING:-			Ē.		NEXT ASSEMBLY/USED ON	
\vec{z}	1	102	Crystal.	101059-003	1			A55.	
2-15-7		105	Tubing, Thermofit.	100185-009	A/R			Use with item 102.	
3	1	107	Resistor, 1%, ½W. 4	.12K 100155-348	1			D45.	
200									
		112	Wire, Solid Insulated.	300648-001	A/R			Jumper A19 to A20.	
	ı							Jumper A28 to A29.	
	١				<u> </u>			Jumper B38 to B40.	
	١	\dashv			\vdash			Jumper B29 to B30.	
	ı	\dashv			\vdash	_	_	Jumper B13 to B14.	
	1	\dashv			+	-	-	Jumper 812 to A13. Jumper C6 to C8.	
	1	\dashv			+			Jumper C9 to D8.	
	١	_				\vdash	\Box	Jumper C5 to D5.	
	l				1			Jumper D44 to D47.	
								Jumper C11 to C12	
	I	113	Wire, Solid	100051-024	A/R			Hold Down Wire for Item	102
	I	114	Rework Inst.	301777-00	0				_
		\exists							_
	ł						-		
		\Box							
	1	\dashv			\vdash	_			
					\Box				
	I	-					-		
		\dashv				_			_
	1	\neg			\vdash	_			



HEV.	ι,	PE	TRKIN-ELMER mory Products Division	MATERIAL L	IST			301320-010 <u></u>
E K	-010		ASSY, P'/B. DATA INTERFACE, VFO II	MODEL .	SF &			DATE 9/5/75 SHEET 1 OF 1
PARI NUMBER	301320-010	ITEM NO.	DESCRIPTION	PART NO.	REQD	REV.	ACT. REV.	REMARKS
	301		USE MATERIAL LIS	ST 301320-000		Ε		NEXT ASSEMBLY/USED ON
Ę	Т	102	Crystal.	101059-003	1			A55.
27575			Tubing, Thermofit.	100185-009	_			Use with item 102.
7			Resistor, 1%, NW. 4.12K		1			D45.
	1	112	Wire, Solid Insulated.	300648-001	A/R			Jumper A20 to A21.
W								Jumper B39 to B40.
1								Jumper B28 to B29.
١,	P							Jumper A28 to A30.
	ر				1			Jumper B13 to B14.
					1			Jumper 812 to A13.
					1			Jumper C6 to C8.
					T			Jumper C9 to D8.
							_	Jumper C5 to D5.
								Jumper D44 to D47
								Jumper Cli to C12
		113	Wire, Solid	100051-024	A/R			Hold Down Wire for Item 10
		114	Rework Inst.	301777-001	0			
					-		\vdash	
					┢			
					┼			
					_		\exists	
					\sqcup			

SE.	W			ELMER oducta Division	MATERIAL	LIST	E	ASSEMBLY PART NUMB 301320-01	
ASSEMBLY PART NUMBER	011	TITLE	AS: DAT	SY, PWB. FA INTERFACE	, VFO II	MODEL SF, ST	Г пате 6	5/2/76 _{SHEE}	1 0= 1
ART	20-	ITEM	_	PART NO.	DESCRIPTION			REMARKS	
3LY P	301320-011		1	301320-000	Assy, PWB, Data Inter. V	FO II - Basic	REV	E	
SSEM									
ĕ		28	1	100165-272	Capacitor, Poly	.0027uf	D27		Delete
		28	1	101004-562	Capacitor, Poly	.0056uf	D27		Add
		• 00	_	101050 000					
		102		101059-003	Tubing, Thermofit		A55	h item 102	Add
		107	1		Resistor, 1%, ½W	4.12K	D45	.II 1 (Call 102	Add
		112	12		Jumper, Insulated	7.121		A2 to A3	Add
								A20 to A21	Å
								A28 to A30	
								B12 to A13	
								B13 to B14	
								B28 to B29	
								B39 to B40	
								C5 to D5	
		-						C6 to C8	
								C9 to D8	
		\vdash	_					C11 to C12 D44 to D47	
		\vdash						D44 to D47	Add
		113	A/R	100051-024	Wire, Solid		Hold Do	wn Wire for	Item 102
		114	0	301777-001	Rework Inst.				
		\vdash							
_		(R 3/7							

Ī			RKIN-ELMER						PART NUMBER	RE
I	W		ERKIN-ELMER mory Products Division	MATERIAL L	IST				301320-013	7.5
1	113	т	ASSY. PWB. DATA INTERFACE, VFO	MODEL .	SF	&ST		DATE	7-26-76 SHEET	1 of .
I	50-(ITEM NO.	DESCRIPTION	PART NO.	REQD	REV.	ACT. REV.		REMARKS	
	301320-013		USE MATERIAL LIS	ST 301320-000		Ξ			NEXT ASSEMBLY/USED	ON
<u>`</u>	╗	101								
07/27/27		102	Crystal .	101059-003	1			A55		
		\vdash			⊢	├	-	-		
me Car		105	Tubing, Thermofit.	100185-009	A/R			Use	with item 102.	
7		107	Resistor, 1%,날씨 4.12	100155-348	1			D45		
	-	\vdash			├	\vdash	-	-		
		112	Jumper, Insulated	300648-001	12			Jum	per A2 to A3	
									A13 to B12	
									A21 to A20	
									A28 to A30	
									B13 to B14	
						L			B29 to B28	
									B37 to B40	
									C5 to D5	
									C6 to C8	
									C11 to C12	
									C9 to D8	
								-	D44 to D47	
		110	Win- 0-1/4	100051 004	1					
		113	Wire Solid	100051-024	A/R	H	 	use	with Item 102,A5	<u>5.</u>
		114	Rework Inst.	301777-003	0					
		-			\vdash	-	-	\vdash		
		$\overline{}$		· .	Т	ΙĖ		Ī	• .	,

ų			DRAM	LOT RELEASE ING TO BE USED F				N-ELME		_	MATERIAI LIST	
_	_		CUREM JECT EN		CES ONLY	Me	mory Pr	oducts Divi	sion		CODE IDENT.	CODE
ē	:	DAT				THIS DRAWN	CONTAINS	PROPRIETARY IN	ORMATION O	F	52465	D12
ć	: N	EXT.	ASSY.			PLICATED OR	DISCLOSED	PROPRIETARY INF IOT, IN WHOLE OR OR USED FOR MAY EIN WITHOUT THE N-ELMER MEMORY	OUFACTURE O	j	PART NUMBER	REV
301320-017	Ł	_				PERMISSION C	F THE PERK	N-ELMER MEMORY	PRODUCTS D	īv.	301320-017	\mathcal{E}
	-	mu	ASS WR: 15	SY, PMB, DAT ITE - DF, R DO RPM, 1440	A INTERF EAD - PU KHZ	ACE, VFO	[] #	ODEL_SF & S	T DATE_	10/3	1 <u>/77</u> ѕнеет <u>1</u>	_oF_1
. :	n	TEM	REQD	PART NO.		DES	CRIPTION				REMARKS	
	Т	1	1	301320-000	Assy,Pe	b, Data In	terface,	VFO II-Bsc	REV	E		
. :												
H	1	02	1	101059-008	Crystal				A55			
11	1	03	1	100243-200				20pf	B46			
1 1	- 1-	05	_	100185-009	_ <u></u>	Thermofi	:	· ·				
1		06	1	101004-272				.0027uf	A53			
۲÷	-	07	1	100155-366		r, 1%, 14		6.34K	D45			
	۴	-	-+	200200-000		,, 2		0.548	243			
1 !	1	12	A/R	300648-001	Ui-o C	olid Insu	lated		Jumper	A2	to A3	
-	+	12	~~	300040-001	mire, 3	OTTO THIS	a ueu		Jumper		to A21	
i	\vdash		+									
1	\vdash	\dashv	+								to A30	
	\vdash		_								to A13	
11	\perp	_									to B14	
Н	4										to B29	
1	4	_								B39	to B40	
1	L									C5	to D5	
1	L									C6	to C8	
: 1	\perp									C9	to D8	
]							C11	to C12	
11	Γ									D44	to D47	
11	Г								,			
	ī	11	A/R.	100051-024	Mire. S	olid						
	-	14	0	301777-001		Instruction	on.				·	
† †	+	-										
H	┪											
]	H											
3	H		-+									
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44	_	_	\perp									
1 1	1											

≨ٰ لا		ERKIN-ELMER M / mory Products Division ==	TERIAL L	IST			9ART NUMBER REV 301320-101
-101	TI	ASSY. PWB. DATA INTERFACE, VFO.	MODEL	100 &	200	TPI	
301320-101	ITEM NO.	DESCRIPTION	PART NO.	REQD	REV.	ACT. REV.	REMARKS
֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֡֓֓֓֓֓֓		USE MATERIAL LIST AND ADD THE FOLLOWING:-	301320-000		E		NEXT ASSEMBLY/USED ON
K-17-21	101	Connector	101040-002	1	_	<u> </u>	J20.
17	102		101059-002	1	\vdash	\vdash	A55.
7	_	Capacitor. 20pf	100243-200	1	_	┢	B46.
W	105	Tubing, Thermofit	100185-009	-	_	\vdash	Use with Item 102
1	106	Capacitor0027uf	101004-272	1			A53.
" []	107	Resistor, 1%, ¼W. 6.34K	100155-366	1			D45.
	112	Wire, Solid Insulated.	300648-901	A/R			Jumper A20 to A21. Jumper B39 to B40. Jumper B28 to B29. Jumper A28 to A30. Jumper D7 to D8. Jumper D44 to D47. Jumper B13 to B15. Jumper A14 to B12.
	113	Wire, Solid	100051-024	A/R			Hold Down Wire for Item 10
		Rework instructions	301777-001	0			Jumper Al to A2 £11 to £12

			WRITE	- DF - NR7T '	c •		1562	.≎ P0.	SITIONER	CODE
	٠.	PE	ERKIN-ELMER		TERIAL L		1302	NIZ	PART NUMBER	D120
	_	₩	mory Products Division	===		<u> </u>			301320-102	F
	301320-102	п	ASSY. PWB. DATA INTERFACE,	VFO.	MODEL.	100 &	200	TPI	DATE 9/5/75 SHEET	1 of 1
	1320	ITEM NO.	DESCRIPTION		PART NO.	REQD	REV.	ACT. REV.	REMARKS	
	301		USE MATER AND ADD THE FOLLOWIN		301320-000		ε		NEXT ASSEMBLY/USE	NO
Ž										
÷	2		Connector.		101040-002	1			J20,	
	<u>!</u>	I	Crystal		101059-002	1			A55.	
١	1		Capacitor.	20pf	100243-200	1			B46.	
٤	9	_	Tubing, Thermofit		100185-009	A/R			Use with Item 102	
J	ľ			0027uf	101004-272	1			A53.	
	ני	107	Resistor, 1%, ¼₩.	6.34K	100155-366	1			D45.	
		112	Wire, Solid Insulated		300648-001	A/R		Н	Jumper A20 to A21.	
									Jumper B38 to B40.	
						П			Jumper B29 to B30.	
								П	Jumper A28 to A30.	
	į					\Box			Jumper D7 to D8.	
	ŀ								Jumper D44 to D47.	
	ı								Jumper B13 to B15.	
									Jumper A14 to B12.	
		113	Wire, Solid		100051-024	A/R	_		Hold Down Wire for	tem 102
						\vdash	_	\vdash	Jumper Al to A2	
						Н	\dashv	\vdash	C11 to C12	
							_		011 to 012	
	- 1		Nawari fratruitions		351777-351					
		_								
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	١					\sqcup	_]			
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	1	FOR		1		1 1			-	

		WRIT 1500RPM. Rea	E - NRZ d - NRZ	1 1562 K r I 'C'	lz.	JP	0	POS	ITIONER		000 D12
L		PKIN-ELMER	MAT	ERIAL L	ST				PAF	T NUMBER	RE
	Me	mory Products Division			=				301	320-104	F
8		ASSY. PWB. DATA INTERFACE, VFO	. <u> </u>	MODEL _	100 8	_		DATE	9/5/75	SHEET	. of _
301320-104	ITEM NO.	DESCRIPTION		PART NO.	REQD	REV.	ACT. REV.		R	EMARKS	
301		USE MATERIAL	LIST 3	301320-000		-			NEXT AS	SEMBLY/USED O	N
		AND ADD THE FOLLOWING:-				Ε					
Γ											
	101	Connector	1	.01040-002	1			J20			
	102	Crystal.	1	01059-002	1			A55			
	103	Capacitor. 20)pf 1	00243-200	1		L_	B46			
	L				_		<u> </u>	<u> </u>			
	105 106	Tubing, Thermofit		0018 5 -009	A/R		_			tem 102	
	107	Capacitor0027 Resistor, 1%, Www. 6.3		01004-272 00155-366	1	_	_	A53			
	10/	RESISTOR, 18, 2N. D.3	4K 1	00155-366	1	_	_	D45	<u> </u>		
	\vdash							-			
	├		\dashv		H	_	_	\vdash			
	H		\dashv		\vdash		-	-			
	112	Wire, Solid Insulated.		00648-001	A/R	_	_	1.00	non A10	to A20.	
	\vdash			300-10-001	A, K	_		-		to A29.	_
	_				Н	-		_		to 840.	_
	\vdash				\vdash			_		to B30.	
							-			to D8.	_
	\vdash				\vdash					to D47.	
								_		to B15.	
			_					_		to B12.	
	113	Wire, 30114	- 1	00051-024	A/R			160	4 Down	Misa for It	織
								Ju	per Al	to A2	
	-				\vdash	Н		<u> </u>	Clin	to CAR	_
		Rework instructions	3	01777-001	0		-				
	<u> </u>				Щ			L			
	\vdash		\dashv		Н	Н	\vdash	-			-
											_

			1500RPM.	WRITE READ	- MRZI 158 - NRZI 'C'	8.5 K	Ήz.		POSITIONER D120
REV.	kį,		PIKIN ELMER mory Products Division	M.A	TERIAL L	ST			PART NUMBER REV. 301320-105 /-
PART NUMBER	371320-105		ASSY. PWB. DATA INTERFACE, V	F0	MODEL	100 %	200	TPI	DATE 9/5/75 SHEET 1 OF 1
3	320	NO.	DESCRIPTION		PART NO.	REQD	REV.	ACT. REV.	REMARKS
A.	371		USE "ATERI MINOLINE FOLLOWIN		301329-009		Ε		NEXT ASSEMBLY/USED ON
٦	Т	101	Connector		101040-002	1			J20.
() A)	Ш	102	Crystal.		101059-104	1			A55.
		103	Capacitor	20pf	100243-200	1			B46.
		105	Tubing, Thermofit		100185-009	A/R			Use with Item 102
4	Þ	106		0927uf	101004-272	1			A53.
		197	Resistor, 1%, 남네.	6.34K	100155-366	1	-	_	D45.
		112	Mire, Solid Insulated	·	300648-001	A/R		\dashv	Jumper A19 to A20. Jumper A28 to A29.
	-	-				\dashv	-	-	Jumper 838 to 849.
						\dashv	$-\dagger$	\dashv	Jumper 329 to 839.
	1	\neg					- +	\dashv	Jumper D7 to D3.
	1							\dashv	Jumper 944 to 047.
	ı						_		Jumper 813 to 815.
		\dashv						\exists	Jumper A14 to B12.
		113	Wire, Solid		100051-024	A/R			Hold Down Wire for Item 102
	I	\neg				\Box			Jumper Al to A2
	ł	\dashv				\dashv	\dashv		CII to C12
	ļ		Rework instructions		301777-001	0	\exists	#	
	ļ	コ					\perp		
	ł					\dashv	-	\dashv	
	F	\dashv				7	\dashv	7	
	•	FOR	M 209 (R,12/74)						***************************************
									Final

		YRITE - DF 2400RPM. PEND - PU	יחי SE יחי				POSITIONER D120
		ERKIN ELMER MA	TERIAL L	ST			PART NUMBER REV.
``	-	emory Products Division		=			301320-110 ≠
301320-110	ITEM NO.	ASSY, PMB. DATA INTERFACE		nn s REOD			
2	NO.		PART NO.	HEUD	REV.	REV.	
ž		USE MATERIAL LIST AND ADD THE FOLLOWING:-	301320-000		E		NEXT ASSEMBLY/USED ON
П	101	Connector	101040-002	1			J20.
	102	Crystal.	101059-003	1			A55.
l	107	Resistor, I에, W. 4.12K	100155-348	1			D45.
1	112	Wire, Solid Insulated.	310648-101	A/Q			Jumper A20 to A21,
П							Jumper 839 to 840,
							Jumper B28 to B29.
l							Jumper A28 to A30.
•							Jumper D7 to D3.
							Jumper D44 to D47.
							Jumper B13 to B15.
							Jumper A14 to B12.
	105	Tubing, Thermofit	100185-009	A/R			Use with Item 102
	113	Wire, Solid	100051-024	A/R			Hold Down Wire for Item 10
							Jumper Al to A2
		_					C11 to C12
		Rework instructions	301777-001	0			
				П	П		
i							
			i	\vdash	\vdash		
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			WRI	TE - DF					
			1500RPM REA	D - UND	ISCRIMINATED				POSITIONER CODE
REV.	4	PE	PIKIN-ELMER nory Products Division	M A	TERIAL L	IST			PART NUMBER REV.
-	Ť	1	ASSY PWR						301320-106 €
PART NUMBER	301320-106		DATA INTERFACE, VF	0.	MODEL				DATE 1-15-76 SHEET 1 OF 1
S S	320	ITEM NO.	DESCRIPTION		PART NO.	REQD	REV.	ACT. REV.	REMARKS
PAF	301		USE MATERI AND ADD THE FOLLOWING:		301320-000		E		NEXT ASSEMBLY/USED ON
	7								
DATE	1	_	Connector		101040-002	1			J20.
	4	102	Crystal		101059-002	1		L	A55.
٨.	Т	103		20pf	100243-200	1	_	_	B46.
APPROVED		105		*****	100185-009	A/R			Use with Item 102
AP.	H	106		.0027uf		1	_		A53.
	J	107	Resistor, 1%, W	6.34K	100155-366	1			U45.
		112	Jumper, Insulated		300648-001	8			Jumper A20 to A21.
		112	oumper, insuraced		300040-001	۳			Jumper B37 to B40.
		\vdash			·	Н	\vdash		Jumper B28 to B29.
						\vdash			Jumper A28 to A30.
						H			Jumper D7 to D8.
			· · · · · · · · · · · · · · · · · · ·			Н			Jumper D44 to D47.
								\neg	Jumper B13 to B15.
						П			Jumper A14 to B12.
		113	Wire, Solid		100051-024	A/R			Use with Item 102, A55.
		\vdash				\vdash			3 A 1 +- A0
		-				Н	_	_	Jumper A 1 to A2 C11 to C12
		-				\vdash	-	-	C11 to C12
		\dashv	Rework instructions		301777-001	0	\dashv		
		\dashv				H	\dashv	-	
					-	\vdash			· · · · · · · · · · · · · · · · · · ·
	- 1	\neg				\vdash	\neg	\neg	
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		FOR	M 209 (R.12/74)						

REV.		2400RPM						DOCTTYONED CODE
╅			READ - UN	DISCRIMINATE	D			POSITIONER D120
╁		FIKIN-ELMER		TERIAL L				PART NUMBER REV.
ı	ļ "	mory Products Division						301320-113 <i>E</i>
301320-113		ASSY. PWB. DATA INTERFACE,	VF0	MODEL _				DATE
301320-113	ITEM NO.	DESCRIPTION		PART NO.	REQO	REV.	ACT. REV.	REMARKS
301		USE MAT AND ADD THE FOLLOWI	ERIAL LIST NG:-	301320-000		Ε		NEXT ASSEMBLY/USED ON
. 7	101	Connector		101040-002	1			J20.
1/6.	102	Crystal		101059-003	1			A55.
3	Ш							
	105	T. () T. ()						
1/2	105	Tubing, Thermofit		100185-009	A/R	-		Use with Item 102
1.	107	Resistor, 1%, W	4.12K	100155-348	1	-		D45.
	10,	10010019 129 4	71228	100100 010	Ė	-		D101
	112	Jumper, Insulated		300648-001	8			Jumper A21 to A20.
								Jumper A28 to A30.
								Jumper B37 to B40.
	Ш				Ш			Jumper B29 to B28.
	Ш							Jumper D7 to D8.
	Н							Jumper D44 to D47.
	Н				Н			Jumper B13 to B15. Jumper A14 to B12.
	Н				\vdash			Jumper A14 to 512.
	113	Wire, Solid		100051-024	A/R			Use with Item 102, A55.
								,
								Jumper A1 to A2
								C11 to C12
	\sqcup							
	$\vdash \dashv$	Rework instructions		301777-001	0			
	\vdash				\vdash		_	
	\vdash				Н	_		
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	Ц							
	ليا	M 209 (R.12/74)						

			2400RPM. REA	TE - NRZI AD - NRZI 'C	1			POSITIONER © D1
HEV.	Ų.		EPKIN-ELMER M.	TERIAL L	IST			PART NUMBER RE
•	_	™	mory Products Division		=			301320-107
PART NUMBER	301320-107		ASSY. PWB. DATA INTERFECE, VFO.	MODEL.				DATE 9/5/75 SHEET 1 OF
ž	320	ITEM NO,	DESCRIPTION	PART NO.	REQD	REV.	ACT. REV.	REMARKS
PAR	301		USE MATERIAL LIST AND ADD THE FOLLOWING:-	301320-000		Ε		NEXT ASSEMBLY/USED ON
ž	₹	101	Connector.	101040-002	1			J20.
DATE // // C/	2	102	Crystal.	101059-003	1			A55.
<u>.</u>	3	П						
2	a	105	Tubing, Thermofit	100185-009	A/R			Use with Item 102
Ęħ.	∦	107	Resistor, 1%, ኤW. 4.12K	100155-348	1	_	-	D45.
	_	112	Wire, Solid Insulated.	300648-001	A/R			Jumper A19 to A20.
					Г			Jumper A28 to A29.
								Jumper B38 to B40.
								Jumper 829 to 830.
								Jumper D7 to D8.
		Ш						Jumper D44 to D47.
		Ш						Jumper B13 to B15.
		Н			L			Jumper A14 to B12.
		.13	Wire, Solid	100051-024	A/R	_		Hold Down Wire for Item 1
								Jumper Al to A2
		Н						C11 to C12
			Rework instructions	301777-001	0			
					Н			
					目			
		Н			Н	\dashv		
	1		IM 209 (R,12/74)	1	Щ.			

			2400 RPM		E - DF - PULSE 'D					POSITIONER	D120
ÿ	٠,		PKIN-ELMER							PART NUMBER	REV.
HEV.	E		mory Products Division	==	TERIAL L	==				301320-116	E
PART NUMBER	116	TIT	TLE ASSY, PWB, DAT	A INTERFACE,V	FO II MODEL	F&T			DATE	6-2-76 знеет.	1 of 1
2	-02	ITEM NO.	DESCRIPTION	ı	PART NO.	REOD	REV.	ACT. REV.		REMARKS	
	301320-116		USE M AND ADD/DELETE TH	ATERIAL LIST E FOLLOWING:	301320-000		E			NEXT ASSEMBLY/USE	D ON
176 3/2/	0.	28	Capacitor, Poly	.0027uf	100165-272	1			D27		Delete
2		28	Capacitor, Poly	.0056uf	101004-562	_	\vdash		D27		Add.
		20	capacitor, roly	.003001	101004-362	宀	\vdash		ULI		Auu.
, o	200										
ξ.	ă	101	Connector		101040-002	1			J20		Add.
;	١	102			101059-003	-			A55		Add.
	_	107	Resistor, 1%,%W	4.12K	100155-348	_			D45		Add.
		112	Jumper, Insulated		300648-001	10				per A20 to A21	Add.
										per B39 to B40	Add.
		$ldsymbol{ldsymbol{ldsymbol{eta}}}$				╙			_	per B28 to B29	Add.
						<u> </u>				per A28 to A30	Add.
		$ldsymbol{ldsymbol{ldsymbol{eta}}}$				_				per D7 to D8	Add.
		ш			L	L.	Ш		_	per D44 to D47	Add.
						ļ				per B13 to B15	Add.
		L				<u> </u>				per A14 to B12	Add.
		<u> </u>				├	\vdash		_	per A1 to A2	Add.
		<u> </u>				-	\vdash		Jum	per C11 to C12	Add.
		105	Tubing, Thermofit		100185-009	A/R			Use	with Item 102	
		<u> </u>				├-	\vdash				
		113	Wire, Solid		100051-024	A/R			Ho1c	Down Wire for	Item 102
		<u> </u>	Rework instruction	00	301777-001	0					
		\vdash	ACHOIR INSUIDECTOR		301777-001	اٽ					
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		L				L			l		

	_	WRITE - 2400 RPM. READ -	DF. NRZI 'C'				POSITIONER	D12
ų		FIKIN-ELMER MA	TERIAL L	ST			PART NUMBER	REV.
_	! ™	mory Products Division		=			301320-109	1
301320-109		ASSY. PWB. DATA INTERFACE, VFO.					е9/5/75 ѕнеет _1	of _1
132	NO.	DESCRIPTION	PART NO.	REQD	REV. R	CT. EV.	REMARKS	
ř		USE MATERIAL LIST AND ADD THE FOLLOWING:-	301320-000		E	F	NEXT ASSEMBLY/USED O	N
	101	Connector	101040-002	1		J2	0.	
	102	Crystal.	101059-003	1		A5		
	197	Resistor, 1%, %W. 4.12K	100155-348	1			5.	
1	112	Wire, Solid Insulated.	300648-001	A/R		Ju	mper A20 to A21.	
							mper B38 to B40.	
	105	Tubing, Thermofit	100185-009	A/R		_	mper B29 to B30.	
H		Use with Item 102				Ju	mper A28 to A30.	
_						Ju	mper D7 to D8,	
						Ju	mper D44 to D47.	
						Ju	mper B13 to B15.	
		·				Ju	mper A14 to B12.	
	113	Wire, Solid	100051-024	A/R		Но	ld Down Wire for It	em 10
	_			Ш		Jt	umper A1 to A2	
				Ш	_		C11 to C12	
				Ш				
		Rework instructions	301777-001	0		_		
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	_			Ш				
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ı		IM 209 (R,12/74)		Ш				

			110 205 (H, 12) 74)									
				WRITE - DF								
		150	O RPM	READ - PULSE 'D'	1440 KHz					POSITIONER		00D€ D120
		T	PIKIN-ELMER					_	-	PART NUMBER	+	REV.
REV.	Q		nory Products Division	· #	ATERIAL L	31				301320-117	7	<i>5</i> .7
Г		1	ASSY. PW	В.								
BER	117	TI	TLE DATA INT	ERFACE, VFO	MODEL	100 8	3 200	TPI	DATE	7-12-76 SHEET	1 0	×_1
PART NUMBER	301320-117	ITEM NO.		CRIPTION	PART NO.	REOD	REV.	ACT. REV.		REMARKS		
P.A.R.	301			USE MATERIAL LIST	301320-000	$\overline{}$				NEXT ASSEMBLY/USE	D ON	
			AND ADD THE		301320-000		Ξ					
-	Т											
DATE	Ś	101	Connector		101040-002	1			J20.			
á,	1	102	Crystal		101059-008	1			A55,			
Г	1	103	Capacitor	20pf	100243-200	1			B46.			
PPROVED		105	Tubing, The	mofit	100185-009	A/R			Use	with Item 102		
E.		106	Capacitor	.0027uf	101004-272	1			A53.			
*		107	Resistor, 1%	,¼W 6.34K	100155-366	1			D45.			
	_											
						<u> </u>						
		L			ļ							
		<u> </u>				_						
		112	Wire, Solid	Insulated	300648-001	A/R	\vdash			er A20 to A21		
		<u> </u>				<u> </u>			n	D33 CO D40		
		├				-	Ш		11	DEG TO DES		
		┝			 	⊢	\vdash	-	"	750 CO 130		
		├			 	-	\vdash		- "	D7 CO DO		
		_			 	-	\vdash	-	-	D17 CO D17		
		_			+	├	Н	-	- "	B13 t0 B13		
		┝			+	╁	-	-		A14 to B12		
		Η-			 	 	Ь	-		A1 to A2 C11 to C12		
					+	 	_	-	_	CII to CIZ	_	
		113	Wire, Solid		100051-024	A/R	\vdash		Ho L	d Down Wire for	Iter	n 102
			, , ,				Н			a bount united for	100	11 102
					1						_	
			Rework instr	uctions	301777-001	0						
						Г						
					1	ــــا						
											_	
		FO	RM 209 (R,12/74)									-

REV.	2	THI	SDRAW	PILOT RELEASE	FOR THE	PERKIN-EL		1	MATERIAL LIST	
	-	PRO	ICUREN NECT &	NG PI	ECES ONLY	Memory Products			CODE IDENT.	CODE
186	-50	DAT	E			THIS DRAWING CONTAINS PROPRIETA	ARY INFO	RMATION OF	52465	D120
T NUMBER	301320-201	NEXT	ASSY.			THIS DRAWING CONTAINS PROPRIET. PERKIN-ELMER AND MAY NOT, IN WHI PLICATED OR DISCLOSED OR USED ANY PART DISCLOSED HEREIN WITHO PERMISSION OF THE PERKIN-ELMER M	FOR MANU OUT THE PI MEMORY P	RIOR WRITTEN RODUCTS DIV.	301320-201	B REV.
PART	9 30	TITL	15	SY., PWB, DA OO RPM, WRITE FOMAG POSITI	- DF, REA	ID - PULSE "D" 1	100 TP: F&T	I DATE_2-	13-78 SHEET 1	_{OF} 1
		ITEM	REQD	PART NO.		DESCRIPTION			REMARKS	
		1	1	301320-000	Assy, Pw	b., Data Interface - Ba	asic	RC1 E	-	
		101	1	101040-002	Connecto			J20		
		102	1	101040-002	Crystal	"		A55		
+	+	102	1	100243-200	Capacito	nr 2		B46		
+	+	105		100185-009		Thermofit		Use with i	tem 102	
	Ш	106	1	101004-272	Capacito		_	A53	200	
L	Ш	107	1	100155-366	<u> </u>			D45		
		112	A/R	300648-001	Wire, So	olid Insulated		Jumper Al	to A2	
								A14	to B12	
	1							A20	to A21	
				****				A28	to A30	
Т	П							B13	to B15	
								B28	to B29	
								B39	to B40	
								C12	to C13	
								D7	to D8	
							-+	D44	to D47	
		112	A/D	100051-024	Wire, So	lid		Hold down	wire for item	102
1		113	A) K	100031-024	m11E, 30			iora down	mire for item	102
		-								
	Ш									
0		-								
G.										
:		-								
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			WRITE - DF 2400RPM READ - PU	LSE 'D'					POSITIONER Harris Florida	CODE D120
REV.			ERKIN-ELMER MA	TERIAL L	\$ T				PART NUMBER	REV.
Œ		"	mory Products Division		=				301320-210	\subseteq
PART NUMBER	301320-210		ASSY. PWB. DATA INTERFACE,	VFO MODEL	00 &			DATE	3-29-76 SHEET 1	of <u>1</u>
N	320	ITEM NO.	DESCRIPTION	PART NO.	REQD	REV.	ACT. REV.		REMARKS	
PAR	301		USE MATERIAL LIST AND ADD THE FOLLOWING:	301320-000		C-			NEXT ASSEMBLY/USED C	N
	Т	101	Connector	101040-002	1			J20		
DATE		102	Crysta1	101059-003	1			A55		
Š .,		105	Tubing, Thermofit	100185-009	A/R			Use	with Item 102	
_	1	107	Resistor, 1%,場W 4.12K	100155-348	1			D45		
APPROVED		112	Wire, Solid Insulated	300648-001	A/R			Jum	per A20 to A21 B29 to B40 B28 to B29	
		П					_		A28 to A30	
					Г				D7 to D8	
									D44 to D47	
									B13 to B15	
									A14 to B12	
									A1 to A2	
		L_						L	C12 to C13	
		113	Wire, Solid	100051-024	_	ш		Ho1	d Down Wire for It	em 102
		<u> </u>	Rework Instructions	301614-001	0	Щ		_		
					 		_	_		
		\vdash						-		
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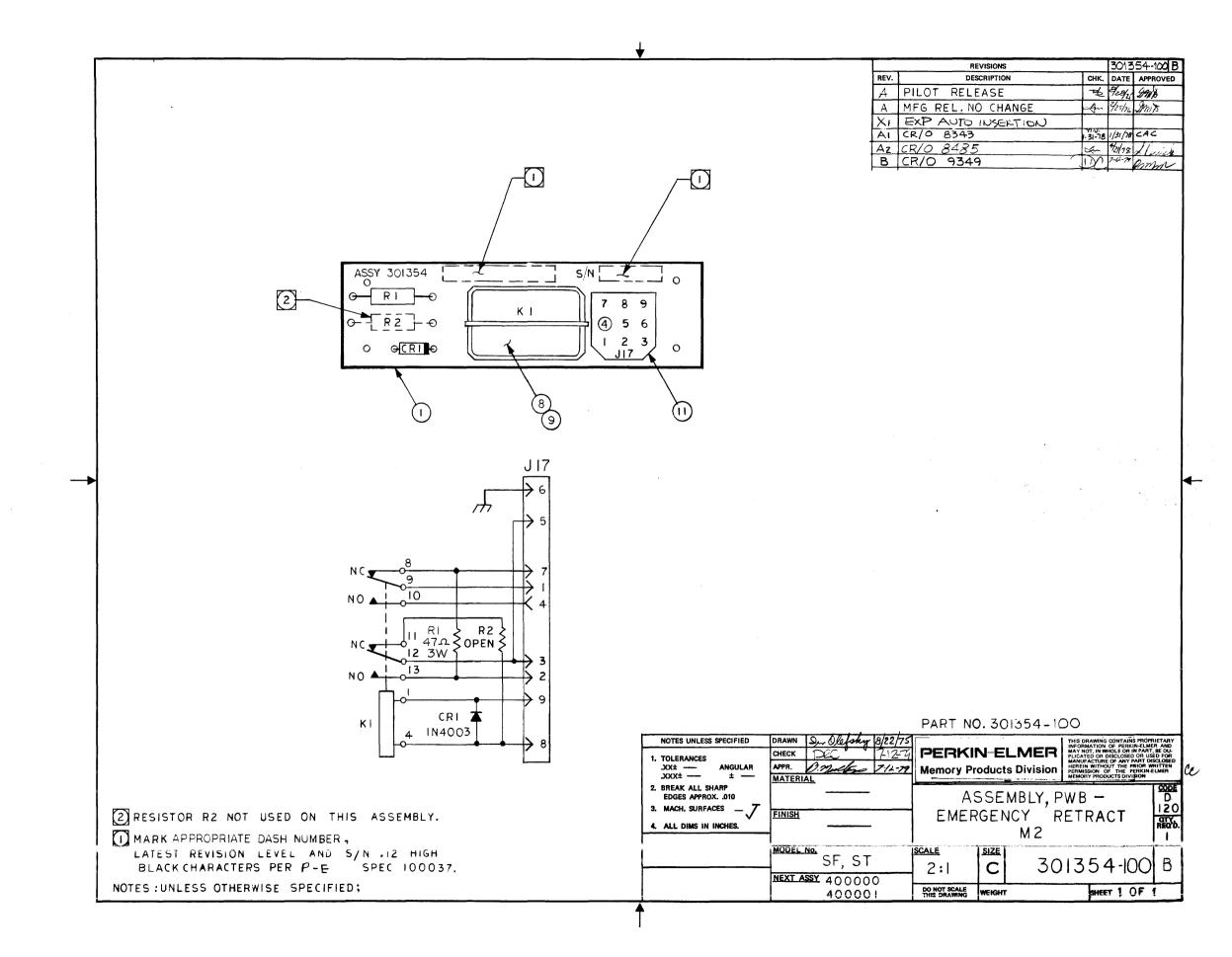
			1500RPM	WRITE - DF READ - NRZI	'C' . 1562i	(Hz	Spec		INFOMAG POSITIONER HARRIS DALLÁS GENERAL AUTOMATION DIZ
ËV.	U	[76 MA	ERKIN-ELMER mory Products Division	MA	TERIAL LI	ST			PART NUMBER REV
Г	Т	1	ASSY. PWB. TLE DATA INTERFAC	E, VFO	MODEL _	[00·&	200	TPI	301320-202 C
PART NUMBER	301320-202	ITEM NO.	DESCRIPTION	٧	PART NO.	REQD	REV.	ACT. REV.	REMARKS
PART	3013		USE M AND ADD THE FOLLO	ATERIAL LIST WING:	301320-000		Ε		NEXT ASSEMBLY/USED ON
7		101	Connector		101040 002	ا ب	\vdash	⊢	120
DATE		-	Connector		101040-002	1	├	<u> </u>	J20
Ë	À,	102	Crystal	20-5	101059-002	1	-	<u> </u>	A55
8	0	103	Capacitor	20pf	100243-200	1	_	-	B46
Š	7	105	Tubing, Thermofit		100185-001	_	-	-	Use with Item 102
APPBO	I,	106	Capacitor	.0027uf	101004-272	1	-		A53
L	J	107	Resistor, 1%, ¼W	6.34K	100155-366	1	-	-	D45
		112	Wire, Solid Insul	ated	300648-001	A/R			Jumper A20 to A21
		\vdash			<u> </u>				B38 to B40
		Г							B29 to B30
		Т							A28 to A30
									D7 to D8
		Г		-					D44 to D47
									B13 to B15
									A14 to B12
									A1 to A2
									C12 to C13
		113	Wire, Solid		100051-024	A/R			Hold Down Wire for Item 10
			Rework Instructio	ns	301614-001	0			
		\vdash							
		FOR	RM 209 (R,12/74)						

PE V.	4	THIS	DRAW	ILOT RELEASE	OR THE	PEF	KIN-ELM	ER	MATERIAL LIST	
		PRO	CUREM	ENT OF PIE	CES ONLY	Memo	ry Products Div	ision	CODE IDENT.	COL
96	211	DAT	E				•		52465	D12
PART NUMBER	301320-211	NEXT	ASSY.			This drawing contains whose or in part, be displayed herein	proprietary information of WANG aplicated or disclosed or used for without the prior written perm.	CO and may not, in manufacture of any swor, of WANGCO	901320-211	RE'
PA.	301	TITL		SY. PWB ITA INTERFACE	, V FO		MODEL_SF & :	ST DATE 5/	1/79 SHEET 1	_OF
L	Ĺ	ITEM	REQD	PART NO.		DESCR	PTION		REMARKS	
								-		
		102	1	101059-008	Crystal			A55		
		103	1	100243-200	Capacit	or	20pf	B46		
		105	A/R	100185-009	Tubing,	Thermofit		Use with	Item 2	
1		106	1	101004-272	Capacit	or	.0027uf	A53		
		107	1	100155-366	Resisto	r, 1%, ¼W	6.34K	D45		
ĺ								<u>L</u>		
		112	A/R	300648-001	Wire, S	olid Insula	ted	Jumper A2	20 to A21	
								" B3	39 to B40	
								" B2	28 to B29	
	1 1							" A2	28 to A30	
	1	1						" C6	to C8	
		1						" D	7 to D8	
		_						" D4	14 to D47	
	li							" B:	13 to B15	
H	++	†							14 to B12	
									3 to A2	
			-						11 to C12	
	ii	<u> </u>			7			:	to 05	
	1 1	ı			ı				9 to 08	
1	1-1-	112	A/D	100051-024	Wire, S	olid			Wire for Ite	m 10
-	+	113	ry.tt	100031 024	#II.C, 5	0114		1		
		\vdash	_							
ļ		\vdash	0	301777-001	Downsk	Instruction				
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		240	ORPM					D12
REV.	0			ELMER			ASSEMBLY PART NUMBER	REV
	<u> </u>		mory Pn	oducts Division	MATERIAL LIST		301320-207	B
ASSEMBLY PART NUMBER	301320-207	TITLI	ASS DAT	Y. PWB A INTERFACE,	VFO. MODEL F &	TDATE	6/16/77 SHEET 1	.or1
PAR	132	ITEM	REQD	PART NO.	DESCRIPTION		REMARKS	
1BLY	3	1	1	301320-000	Assy., PWB, Trans. Elec Basic	REV	E	
SSEN								
٩		101	1	101040-002	Connector	J20		
		102	1	101059-003	Crystal Crystal	A55		
		103						
		104						
			A/R	100185-009	Tubing, Thermofit	Use wi	th Item 102	
		106						
		107	1		Resistor, 1%, 1/4W 4.12K	D45		
		112	A/R	300648-001	Wire, Solid Insulated	Jumper	A19 to A20	
					<u> </u>		A28 to A29	
							B38 to B40	
						<u> </u>	B29 to B30	
			-+				D7 to D8	
							D44 to D47	
		-1					B13 to B15	
		-	-				A14 to B12	
		\neg	-+				A1 to A2	
	- 1	113	Δ/R	100051-024	Wire, Solid	U-34 B	C12 to C13	
	ı			100001 024	arre, Joria	no ta D	own Wire for Item	102
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			2400RPM WRITE - READ -	DF NRZI 'C'	INF	OMAG	POS I	TIONER ©DE
MEV.	٠.		PKIN ELMER NA	TERIAL L	ST			PART NUMBER REV.
Ë	Ú	140	mory Products Division		<u> </u>			301320-209
ABER	509		ASSY. PWB. DATA INTERFACE, VFO	MODEL _	100 &	200	TPI	DATE 10-26-76 SHEET 1 OF 1
PART NUMBER	301320-209	ITEM NO.	DESCRIPTION	PART NO.	RECO	REV.	ACT. REV.	REMARKS
PAR	301		USE MATERIAL LIST	301320-000				NEXT ASSEMBLY USED DA
			AND ADD THE FOLLOWING: -	301320 000		Ξ		
	1	101.	,Connector	101040-002	1			J20
DATE		102	Crystal	101059-003	1			A55
9	1	107	Resistor, 1%, WW 4.12K	100155-348	1			045
APPROVED	3	112	Wire, Solid Insulated	300648-001	10			Jumper A20 to A21
چ ڏ	ŝ							838 to 849
£ .	3				Ш			B29 to 333
7	}	_			Ш	_	_	A28 to 430
		_			Ш			37 to 33
		_						044 to 047
		_			\vdash			313 to 315
		<u> </u>			\vdash	\rightarrow		A14 to 312
		<u> </u>		ļ	\vdash	-		A1 to A2
		\vdash			Н	-		C12 to C13
		105	Tubing, Thermofit	100195 000	A/R	\vdash		Use with Item IOC
		105	Tubring, Memburit	100185-009	A/ N	\vdash		Use with Item 102
		_		<u></u>	Н	\vdash		
						\vdash		
		113	Wire, Solid	100051-024	A/R			Hold Down Wire for Item 102
			Rework Instructions	301614-001	0	\vdash		
	i	_			\sqcup			
		_		ļ	\sqcup	\sqcup		
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		_			\vdash	\sqcup		
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		FO	RM 209 (R,12/74)	<u> </u>	نــــا	Ll		<u> </u>
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REV.		PE	RKIN-ELMER	ш.	ATERIAL L	IST				PART NUMBER	REV.
•	8		nory Products Division	=	TIERIAL L	≝				301354-001	В
	-001	TIT	ASSY. PWB EMERGENCY RETRAC	T BOARD.	MODEL .	SI	8.5	T_	DATE	8/25/75 SHEET 1	of _2
NOMBER	301354-001	ITEM NO.	DESCRIPTION		PART NO.	REOD	REV.	ACT. REV.		REMARKS	
	301				T	Γ		Π		NEXT ASSEMBLY/USED	ON
					1	1			400	000, 400001	
١.	П	1	Board, Processed.		301353-001	1	۵				
2/10/10	3	2									
6	la	3									
_	71	4	Diode, Rectifier	IN4003	100127-001	1			CR1		
	Ш	5				<u> </u>					
\langle	šI I	6	Resistor, 5%, 3W.	47	100068-470	1	L_	L_	R1.		
3		7			<u> </u>	└	<u> </u>	<u> </u>	L.		
	_	8	Relay.		100240-001	1	L	<u> </u>	K1.		
	1	9	Socket, Relay.		100241-001	1	<u> </u>	<u> </u>	XK1	•	
		10	0 D/s		100247-004	1	_	-	J17		
			Connector, 9 Pin.		100247-004	1	├	├	017		
		12	Printed Master.		301352	Ref.	├	-			
		14			301354-100	0	-				
		14	MSSY. DWG		301354-100	-	<u> </u>	├			
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FORM 209 (R,12/)

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F	E.	D D58	C B57 B55O	856 A	1
		D53 O			
			READ PHASE ADJUST	vco	
		D441		A42 O	
			CO ADJUST		
			1		
		D34			
		D19 O			
		DATA		,]	l
				_ل	1

	PE Me	PIKIN ELMER mory Products Division	<u># A</u>	TERIAL L	IST			ŀ	301422-000	REV G
3	Τι	ASSY., PWB. MFM D	ATA CONTROI	L MODEL.	SF	&ST_		DATE _	12-13-76 знеет	or _4
20710	ITEM NO.	DESCRIPTION		PART NO.	REQD	REV.	ACT. REV.		- REMARKS	
									NEXT ASSEMBLY/USED	ON
4	1	Board, Processed		301421-001	1	<i></i>	-	-		
	2	Board, 1100cssca		301121 001	Ť	<u></u>	\vdash	_		
ı	3				\vdash	_	_			
1	4				T	_				
	5							†		
	6	I.C.	9602	100234-001	1			C38,		
ļ	7	I.C.	8T20	101024-001	2			C10,	017	
	8	I.C.	74574	123023-001	5			A10,4	45,52,C17,E52	
	9	I.C.	74500	123028-001	1			B17		
	10	I.C.	74504	123046-001	3			C24,	17,F45	
	11	I.C.	74\$08	123050-001	3			A24,	338,F24	
	12	I.C.	74S132	123067-001	2			B10,	10	
	13	I.C.	74S10	123068-001	6			A31,	38,B31,E38,F31,38	3
	14	I.C.	745124	123069-001	1			D38		
	15	I.C.	745153	123070-001	1			E31		
1	16	I.C.	74S175	123071-001	1			E24		
	17	I.C.	79M05	125007-005	1			É7		
	18	I.C.	2515	125010-001	1			D33		
	19	1.C.	78M05	125002-001	1			D53		
	20									
	21	Capacitor, Mica	20pf	100243-200	2			C12,0	018	
	22	Capacitor, "	22pf	" -220	1		_	D36		
	23	Capacitor, "	27pf	" -270	2		L_	C36,4	12	
	24	Capacitor, "	56pf	" -560	1			B14		
	25	Capacitor, "	33pf	" -330	2		<u> </u>	F51,5	55	
	26	Capacitor, "	100pf	" -101	1		<u></u>	D35		
	27				-	_		<u> </u>		
	28				\perp	L.	L	<u> </u>		
	29	Capacitor, Tant. 20V	2.2uf	101002-225	7		<u> </u>		3,D45,F6,14,15,50	5
	30	Capacitor, " "	15uf	" -156	1		<u> </u>	F12		
	31				 	<u> </u>	<u> </u>			
	32	Capacitor, Poly	.015uf	101004-153	1		L_	C35		

PERKIN-ELMER
Memory Products Division

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MATERIAL

LIST

CODE 10240

D1240

PART NUMBER

REV.

301422-002

B1

9602 B50, E45 15pf C45,50,E47,F47 10K C53,E50 2K C52,E48

2.2K B53,E49 5.6K B54,F43

Jumper A36 to A37 A49 to A50 E43 to E44 F35 to F34

CC

PILOT RELEASE
THIS DRAWING TO BE USED FOR THE
PROCUREMENT OF PIECES ONLY
PROJECT ENG
DATE
NEXT ASSY.

90 2 100234-001 I.C. 91 4 100243-150 Capacitor, Mica 92 2 138000-103 Resistor, Variable

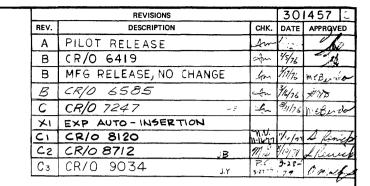
93 2 101156-202 Resistor, 5%, ¼W 94 2 101156-222 Resistor, 5%, ½W 95 2 101156-562 Resistor, 5%, ½W 96 4 300648-001 Jumper, Insulated

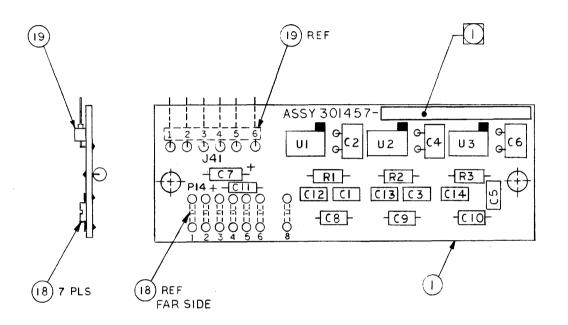
										D120
>		PE	PIKIN-ELMER		TERIAL L	IST			PART NUMBER	REV.
REV.	Q		mory Products Division	==	TENTAL E	≝			301422-000	G
BER	000	TIT	ASSY., PWB. MFM D	ATA CONTRO	L MODEL	SF	&ST	DATE	12-13-76 SHEET 2	of _4
PART NUMBER	301422-000	ITEM NO.	DESCRIPTION	•	PART NO.	REQD	REV. R	CT.	REMARKS	
ART	014					T			NEXT ASSEMBLY/USED O	N
٠	3				1	1				
	П	34	Capacitor, Ceramic	.01uf	101042-103	30		A1	1,18,25,32,39,46,53	.C11.
DATE	П		, , , , , , , , , , , , , , , , , , , ,			1	\vdash		3,25,39,D5,11,29,31	
30	П					1	\Box		,18,25,32,36,37,46	
-	11								1,18,25,32,39,46.	
MEBLAL	П					T				
PRO	L	35	Crystal	20 MHz	106500-002	1		F51)	
7 P	П	36	Diode	1N4003	100127-001	2		E4	,C44	
	,	37								
		38								
		39	Wire, (Bare)	24 AG	100051-024	A/R		Но	ld Down for F50	
		40								
		41								
		42	Inductor	4.7uh	122500-006	3		E4:	1,F41,49	
		43	Inductor	220uh	" -001	2		F4	,8	
		44								
		45	Resistor, Variable	10K	100163-103	1		D58	3	
		46	Resistor, Variable	20K	138000-203	1		D44	1	
		47	Resistor, Variable	1K	" -102	1		D34	<u> </u>	
		48				辶	\perp	٠.		
		49				<u> </u>		\bot		
		50	Resistor, 5%,3W	39	100068-390	1	\sqcup	D48	3	
		51			<u> </u>	↓	\vdash	_		
		52			ļ	<u> </u>	\sqcup			
		53		1K	100155-289	1	\vdash	E40		
		54		2.21K	" -322	2	\sqcup	F41	0,42	
		55		2.37K	" -325	1_	$\vdash \vdash$	D17		
		56	Resistor, " "	10K	" -385	2	\vdash	C30	0,31	
		57			<u> </u>	₩	\vdash	+-		
		58		10	101156-100	2	\vdash	$\overline{}$, D6	
		59		75	" -750	3	 		3,85,E39	
			Resistor, " "	100	" -101	2	\vdash	${ o}$	2,F48	
		61		150	" -151	3	\vdash	$\overline{}$	3,66,55	
		62	Resistor, " "	510	" -511	1	$oldsymbol{ol}}}}}}}}}}}}}}}}}$	D3	7	

51	Res	ist	or,		150		п	-151	3			B13,E6	,55			
	Res		.01.		510		н	-511	1			D37				
			12/74)													
,		٠,			PILOT RELEASE										MATERIAL	
730	٢ ا	υ	PRO	CUREN	WING TO BE USED I	FOR TH						ELME		_	LIST	
	5 8	3	PRO	JECT E	NG							cts Divi		_	CODE IDENT. 52465	D12
DAGMIN TO A		301422-003	NEXT				_	PERKIN-E	LMER AL	ND MAY	NOT, IN	WHOLE OR	FORMATION OF IN PART, BE ON NUFACTURE OF PRIOR WRITT PRODUCTS D	. —	PART NUMBER	REV
1		142						PERMISSI	DISCLO	SED HE	REIN W	ITHOUT THE	PRIOR WRITT	EN :	301422-003	C
8		S			AD & WRITE CL			r delay	ED							
1			1	RE/	ITE CLOCK - (AD DATA NRZ											
1			TITL	E_ASS	Y., PWB. MFN	DATA	A CO	ITROL			MODEL	SF & ST	DATE	4/21,	/78 SHEET 1	_or_1
-		Ĺ	ITEM	REQD					DESCR	PTION					REMARKS	
			1	1	301422-000	Assy	y.,Pı	vb. MFM	Data	Con	trol	- Basic	REV	G		
1			-00	-												
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i	1		92													
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			95	4	300648-001	Jume	Der.	Insula	ted				Jumper	A35	to A36	
			-					1115416					oumper		to A30	
+	+-										_				to F33	
	1														to E44	
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REV.	ტ		ERKIN-ELMER mory Products Division	MA	TERIAL LI	ST			301422-000 G
-	90	τr	TLE _ASSY., PWB. MFM DATA	CONTR	OL MODEL	SF&	ST		DATE 12-13-76 SHEET 3 OF 4
TARI NUMBER	301422-000	ITEM NO.	DESCRIPTION				REV.		REMARKS
	3014						Ī		NEXT ASSEMBLY/USED ON
1	2	63	Resistor, 5%,¼W	1K	101156-102	5			C32,D3,9,47, 25
į	3h hoho	64							
ŝ			Resistor, " "	2K	" -202	2			C40,47,
,	3	66	Resistor, " " 2	.2K	" -222	12			A48,B11,41,42,43,C13,20,
	"CB such	67				_			C37,D41,E13,34,60.
9	Ø.	68		.5K	101156-152	1			E56
į	Ĭ			6.8K	" -682	1	\sqcup		E12
-		70	Resistor, " "	82K	" -823	1	L		D26
		71		30K	" -303	2	Ш		F53,54
		_		3.9K	" -392	1	Ш		D28
		73	Resistor, " "	240	" -241	1			E57
		74				L	Ш		
		75							
		76	Transistor 2N28	B57	151006-001	1	Ш		E53
		77							
		78							
		79	Extractor		10790-001	2	\sqcup		
		80							
		81	Pin, Wire Wrap		100360-001	26	Ш		A35,36,37,40,41,42,43,47,49
									A50,B55,56,57,C34,54,58,D19
		L					\sqcup		E23,42,43,44,58,59,F33,34,
		82						_	F35
		83	Wire, Jumper, Insulated		300648-001	1	\sqcup		Jumper E58 to E59
		84	Screw, Pan Hd.		100036-206	_	\sqcup		4-40 x 3/8"
		85	Washer, Flat		100047-200	1	\sqcup		No. 4
		86	Washer, Spring Lock		100042-200	1	\sqcup		No. 4
		87	Nut, Hex.		100043-200	2	\sqcup	_	4-40
		├-	D. C. L. I. M.		201400 001	Ļ	 _ 		
		<u> </u>	Printed Master		301420 -001	0	F		•
		<u> </u>	Schematic		301423-001	0	.D	_	
		\vdash	Specification			0	$\vdash \vdash$		
		<u> </u>	Test Procedure			0			

## PERFUNE ELANGED ## ## ATTENTIAL LIST ### ATTENTIAL ASSY., PMB. MFM DATA CONTROL MODEL SF&ST DATE 6-21 ### MODEL MEDICAL PROPERTIES ASSY., PMB. MFM DATA CONTROL MODEL ASSY. DATE 6-21 ### MODEL MEDICAL PROPERTIES ASSY. DATE 6-21 ### MODEL MEDICAL PROPERTIES ASSY. DATE 6-21	D1 ART NUMBER R 01422-001	20 EV.
TITLE ASSY., PWB. MFM DATA CONTROL TITLE ASSY., PWB. MFM DATA CONTROL MODEL SF&ST DATE 6-21 TEM. DESCRIPTION DESCRIPTION PART NO. REOD REV. ARV. AND ADD THE FOLLOWING: ONE OF THE PROCESSION OF THE PRO	01422-001 -76 SHEET 1 OF	Ŧ
TITLE ASSY., PMB. MFM DATA CONTROL MODEL SF&ST DATE 6-21 TEM. DESCRIPTION PART NO. REOD REV. ACT. AND ADD THE FOLLOWING: USE MATERIAL LIST 301422-000 F NEXT	-76 SHEET 1 OF	
TITEM DESCRIPTION PART NO. REOD REV. REV. USE MATERIAL LIST 301422-000 PART NO. REV. REV. REV. REV. REV. REV. REV. REV	REMARKS	1
AND ADD THE FOLLOWING:		
AND ADD THE FOLLOWING:	ASSEMBLY/USED ON	
AND ADD THE FOLLOWING:		
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3		
91		_
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		\dashv
92		_
92		
	·	_
		_
93		\neg
94		_
95 Jumper, Insulated 300648-001 4 Jumper:	A35 to A36	
	A49 to A47	
	F35 to F34	
	E42 to E44	_
		_
		_
		-
		_
FORM 209 (R.12/74)		





THIS DRAWING CONTAINS PROPRIETA INFORMATION OF PERKINELMER AN MAY NOT, IN WHOLE OR IN FART, SED OF PLICATED OR DISCLOSED OR USED FOR MANUFACTURE OF ANY PART DISCLOSHERM WITHOUT THE PRIOR WITHOUT PERMISSION OF THE PERKIN-ELMER MEMORY PROPOLITETS.

PART NO. 301457-001 ASSY

NOTES UNLESS SPECIFIED 1. TOLERANCES .XX± ANGULAR .XXX± ±	CHECK	N/20/75 2-5-76	PERKI PLICA ANY P	Memory DRAWING CONT. N-ELMER AND M TED OR DISCLOSED ART DISCLOSED	KIN-ELMER y Products Divisio AINS PROPRIETARY INFORM AAY NOT, IN WHOLE OR IN P. SED OR USED FOR MANUFA D HEREIN WITHOUT THE PRIC ERRIN-ELMER MEMORY PRO ERRIN-ELMER MEMORY PRO ERRIN-ELMER MEMORY PRO ERRIN-ELMER MEMORY PRO	AATION OF AART, BE DU- ICTURE OF OR WRITTEN	
2. BREAK ALL SHARP EDGES APPROX010 3. MACH. SURFACES 4. ALL DIMS IN INCHES.	FINISH		AS	SSEM	MBLY,P.W. AMPL IF	В.	D 120 QTY. REQ'D.
	SF & ST		SCALE 2:1	C	30145	57	C ₃
	400001		DO NOT SCALE THIS DRAWING	WEIGHT		SHEET 3	of 3

2. SCHEMATIC RET 30:458.

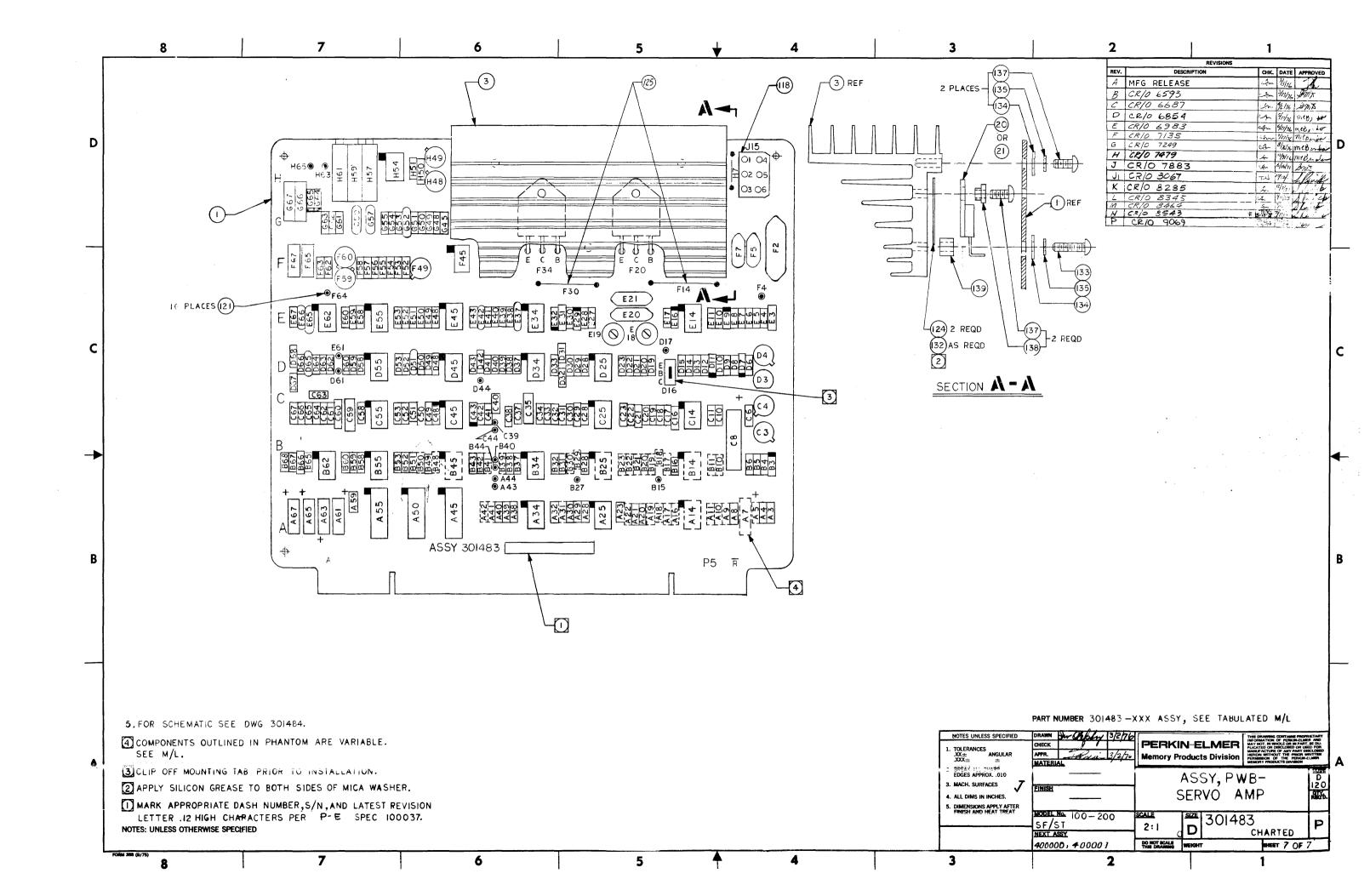
MARK APPROPRIATE DASH NO., S/N, AND LATEST REVISION LETTER .12 HIGH CHARACTERS PER SPEC 100037.

NOTES:UNLESS OTHERWISE SPECIFIED

												D120
Ę.	3		PERKIN-ELMER		TERIAL L	IST				PART NUMBE	R	REV.
ë	S		Memory Products Division ASSEMBLY, PWB		TEXTAL L	=				301457-00)1	C₃
PART NUMBER	-001	TIT	DETENT AMPLIFIER		MODEL	SF	& S	<u></u>	DATE	SHEI	T 1	OF3
Ź	301457-	ITEM NO.	DESCRIPTION		PART NO.	REQD	REV.	ACT. REV.		REMARKS		
¥	301							Г		NEXT ASSEMBLY/	USED O	N
1									400	000, 400001		
Ž	Т	1	Board, Processed		301456-001	1						
17-22-51	П	2										
, 4	ı I	3										
	11	4	IC.	LM308	125009-001	3			U1,	2,3		
4		5				<u> </u>						
1		6										
٠,	4	7	Capacitor, Mica	10PF	100243-100	5				2,3,4,6		
	-	8	Capacitor, Mica	68PF	-680	1		<u> </u>	C5			
		9	Capacitor,Ceramic	.01UF	101042-103	6				9,10,12,13,14		
		10	Capacitor, Tantl 35V	1UF	101003-105	2		<u> </u>	C7,	11		
		11										
		12				1і		<u> </u>	<u> </u>			
		13	Resistor, 0.1%, W	402K	142006-539	2			R1,	2		
		14	Resistor, 5%, "	1.5MEG	101156-155	1		<u> </u>	R3			
		15										
		16										
	ı	17										
		18	Contact FEM PWB MTG		106005-001	7			P14			
		19	Connector	6 Pin	120907-006	1			J41			
		20										
		21				\perp			<u></u>			
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		Щ	Printed Master		301455	REF		<u> </u>	<u> </u>			
		Щ	Schematic		301458	REF	<u> </u>	ļ	\vdash			
		Ш	Specification		301487	REF	_	_	<u> </u>			
	V		Test Procedure.		900128	REF	<u> </u>	<u> </u>	<u> </u>			
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	ı		IM 209 (R.12/74)					<u> </u>	Ц.			

FORM 209 (R,12/74)

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-		ERKIN-ELMER	MAT	TERIAL LI	S T				1483-001	REV.
		Mory Products Division ASSY. PWB SERV	O AMP	. MODEL _		TPI S/ST		DATE 2-16-76 SHEET 1 OF 7		
	ITEM NO.	DESCRIPTION		PART NO.	REQD	REV.	ACT. REV.		REMARKS	
	NO.							NEXT A	ASSEMBLY/USED	ON
4	_	Board Processed		301482-001	1	-	Н			_
١	2	board Frocessed								
1	3	Heat Sink		301698-001	1	Г				
ł	4					Г				
1	5									
ļ	6	IC	7404	100330-001	1			A50		
		IC	7426	101011-001	2			A45,A55		
	8	IC	311	101022-001	4			A25,A34,E	334,C14	
	9	IC	1458	101026-001	8			C25,C45,	55,D25,D45,	E14,
1	_					l	i	E34,E62,		
	12	IC	5020	101029-003	5			B62,D55,1	E45,E55, F45	5
	13	IC	75452	101031-001	1			B55		
	14	IC Lowbias	1458	101026-002	2			D34, H54		
					_	_	_			
	 		2N2222A	101052-001	5	╁╴	\vdash	C3.D4.F5	9,F60,H49	
	17 18	Transistor	2N2907A	101053-001	3	T	1	C4,F49,H		
	19		MPS-U01A	151002-001	1	•	Ţ	D16		
	20	п	EP2179	151003-001	1			F34		
	21	0	EP2180	151004-001	1			F20		
	Ë									
					<u> </u>	-	+	D2 C42 C	40 D7 E0 C1	
	24	Diode	1N5317	101034-001	6	+	+	D3,U43,U	48,D7,E9,E10	
	26	Diode,Zener 5.1V±	2%	107041-002	1			E29		
	27	Diode, Zener 6.8V	1N5235B	101058-010	1	1	ــــــــــــــــــــــــــــــــــــــ	D11		
	28	Diode, Zener 10.0V	± 2%	107041-003	3		<u> </u>	E32 ,G64	,G65	
	29	Diode, SCR	2N5060	161000-001	1	+-	+	D3		
	31	Capacitor, Mica	100pf	100243-101	10	+-	T	C31,C40,	C51,C63,D31	,D42,D5
	٣	55,25,55,7,1,56				Ī		D65,E42,		
	32	Capacitor, Mica	220pf	100243-221	1			G52		

REV.	۵		ERKIN ELM		MA.	TERIAL LI	S T				9ART NUMBER 301483-001	REV.
PART NUMBER	100	1	TLE ASSY.		O AMP	_ MODEL		OTPI F/ST		DATE	2-16-76 SHEET 2	
Ž	ğ	ITEM NO.	D	ESCRIPTION		PART NO.	REQD	REV.	ACT. REV.		REMARKS	
PART	301483-001										NEXT ASSEMBLY/USED	ON
=	┰	33	Capacitor,	Tant. 20	OV 15uf	101002-156	3			A63,	A65,A67	
	•	34	Capacitor,	" 3!	5V 6.8uf	101003-685	3			A61,	F5,F7	
Š	1	35	Capacitor,	Poly	.022uf	101004-223	1			C59		
_	1	36	Capacitor,	п	.0047uf	-472	1			Н50		
2	1	37	Capacitor,	11	.001uf	101005-102	3				E3,E31	
AFFROVED	1	38	Capacitor,	Ceramic	.01uf	101042-103	21			A23,	A59,B16,B49,B65,	3 67, B6
ž	i	\Box									C21,C23,C29,C38,O	_
-									<u> </u>	þ48,	D58,E17,E37,E65,G	57,G59
							i					
		43	Capacitor,	Ceramic	.47uf	101086-474	2				D67,G54	
		44	Capacitor,	Poly 1%	.01uf	102701-103	5			C35,	F65,F67,G66,G67	
		45	Capacitor,	Tant 6V	6.8uf	101001-685	1			C60		
		46	Capacitor,	Tant. 1	5V 180uf	102761-187	ī	<u> </u>		C8		
		47					L			<u></u>		
		48	Capacitor,	Ceramic	.33uf	101086-334	1			D68		
		49	"	"	.luf	101086-104	1	L		D22		
		50	Resistor,	Variable	10K	100163-103	3	L	<u> </u>	Н57	,H59,H61	
		51	Resistor,	Variable	10K	138000-103	2	╙	-	E18.	E19	
		-	 				-	├	╁	+		
		54	Resistor,	1%. 5W	806	100155-280	1	t	 	G55	,	
		-	Resistor,	11 11	16	-289	1	•	\vdash	H51		
		56		п и	1.27K	-299	1		1	D40		
		57	-	и н	2.94K	-334	1		Т	D59		
		58		и н	3.32K		1		T	D23		
		59		H , H	3.92K		1		T	A32		
		60		и и	6.19K	-365	1	1	Т	C34		
		61			8.06K		2	T		B31	,B37	
		62		u 8	8.45K		_	Т	Π	G63		
		63	"	4 11	10K	-385	6	Π	Т	E48	,E50,E52,E53,E67,	E30
		64		и п	11K	-389	1	T	Т	E38		
		6		11 11	12.1K	-393	1		1	A30		
		6		н н	18.2K		-	1	1	D64		

۵		PERKIN EL			МА	TERIAL LI	ST				PART NUMBER	REV.
Ξ	┨ '	lemory Product	Divi	sion	=		=				301483-001	P
100	,	ITLE ASSY.	. PW	B SERV	0 AMP	_ MODEL _		TPI /ST		DATE	2-16-76 SHEET 3) OF 7
3	ITEN NO.	T	DESC	RIPTION		PART NO.	REQD	REV.	ACT. REV.		REMARKS	
2014				•							NEXT ASSEMBLY/USED	ON
7	+-	Resistor,	1%	ш	16.9K	100155-407	2	-	┝	F62,	F63	
ı	68		11,00	11	75K	-469	2		\vdash	D37.		
ı	69		"	я	100K	-481	Ť		_	G62	502	
1	70		11	0	1.5K	-306	4		\vdash	_	A40,828,838	
ı	7:				20K	-414	2			A38,		
ı	-	Resistor,	1%.	3W	280K	100155-524	1		_	G61		
ı	7	Resistor,	1%,	4W	3.01K	100155-335	1			D60		
J	74	 	_		510	101156-511	1	_		C61		
		Resistor,	3%,	3W	50	101084-004	1		\vdash	E20		
	76		ıı		60	-023	1			E21		
	-	Resistor,	5%	,1 ₄ W	240	101156-241	1			G51		
	7	8 "	r	н	470	" -471	1		П	G53		
	79	Resistor,	5%,	₹W	10	101156-100	5			C22,	C30,D6,D38,E28	
	80		117	п	100	-101	1			D10		
	8:	"	11	н	1K	-102	10			B4,0	11,D15,D20,E5,E6,	E7,E10
										Ι,	G49,G50,	
	8:	Resistor,	5%,	14W	10K	101156-103	8			A29,	B6,C10,C18,C19,D9	,F56,
										F57		
	8	Resistor,	5%,	₹W	100K	101156-104	3			Ć6,D	12,E27	
	8	Resistor,	1%		1.24K	100155-298	1			C62		
	8	"	5%	11	1.2K	101156-122	1			C37		
	8	3 "	11	It	1.5K	-152	10			A8,A	20,A21,A28,C67	
											D39,D43,D62,E60,	F52
	9	Resistor,	5%,	圳	160K	101156-164	1			B60		
	9:	"	"	n —	1.8K	-182	1			E	15	
	9	"	n	íl.	2K	-202	1			E4		
	9:	3										
	9	"	31	tt	200K	-204	1			D14		
	9											
	9	"	11 15	i:	27K	-273	2			E8,E	11	
	9	"	11	11	3K	-302	1			АЗ,		
	98		"	"	300K	-304	2			D66	E40	
	9	"	π	11	4.7K	-472	1			D8		

REV.	Q.		ERKIN-EL. emory Product		,	M A	TERIAL L	IST				PART N		RE
BER	10	TI	TLEASS	Y. PWB	SERVO	АМР	MODEL _		O TPI F/ST		DATE	301483 2-16-76		
PART NUMBER	301483-001	ITEM NO.		DESCRIP	TION		PART NO.		REV.			REMA		_
ARI	014							i -			_	NEXT ASSEM	BLY/USED O	N
-	(,,							1						
	Т	100	Resistor,	5%, ½	W	5.1K	101156-512	1	H		C28			
2	П	101	N Sect	R		51K	-513	2			C17,	D63		_
5	П	102	"	"	11	510K	-514	2			E39	D21		
	11	103	"			43K	-43 3	1	\Box		C66			
MATROVED	П	104		H)I	7.5K	-752	14			B42,	B43,B51,B5	2,853,85	8,B
É	Ш										B66,	D53,E49,E5	1,F54,55	5,58
₹	Ш	105												
	-	106												
		107												
		108	Resistor,	5%, ¼W		1.5Meg	101156-155	2			F53	G48		
			Resistor,			.2.52	142000-051	1			F2			
		110	Resistor,	5%,‱		910	101156-911	1	\Box		A4			
	Į													
	ı	112	Resistor,	.1%,	1/8W	4.99K	142006-356	16	Ш			C41,C42,C5		
	- 1	_						Ш	i		D19,	D28,D29,D4	9,D50,E4	1,E
	ļ							Ш	\sqcup		E58,			
		115				10K	142006-385	7	\vdash	\dashv	C32,	C33,C53,C5	8,D30,D3	3,D
	I	119	Connector			6 Pin	100247-013	1	\Box		115			_
	ļ	110	connector			O F III	100247-013				J15			_
	ł	121	Pin Wire 1	wrap			100360-001	16	\dashv	\dashv	B15,	B27,D17,D4	4.D61.E6	1.F
	- [-								F64,	H63, H65,A4	3,A44,B4	0.B
											C39,			
	-	124	Insulator	Mica			100147-001	2		\Box		with F20,F	34	
	ļ	125	Wire 22GA.	. Insu	lated.		100248-922	A/R		\exists	Jump	er Across	F14, F30	
	ŀ	\exists									_			
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۲.		ERKIN-ELMER mory Products Division	MATERIAL L	ST				301483-001	REV.	
10] ,,	ASSY. PWB SERVO AMP	MODEL -		TPI F/ST		DATE	2-16-76 SHEET 5 OF 7		
3-6	ITEM NO.	DESCRIPTION	PART NO.	REQD	REV.	ACT. REV.	;	REMARKS	,	
301493-001				-	-			NEXT ASSEMBLY/USED	ON	
T	1									
ı	132	Grease - Thermal Joint	120100-001	A/R			App1	y both sides of i	tem 12	
ı		Screw, Pan Head	100036-208	1			4-4	0 x 7/16"		
1	134	Washer, Flat, Reduced O.D.	100251-200	3			No.	4		
ı	135	Washer, Spring Lock	100042-200	3			No.	4		
ı	136		i	Π						
1	137	Screw, Pan Head	100036-204	4			4-4	0 x 1/4"		
ر	138	Washer, Nylon Shoulder	100063-014	2		П	Use	with F20, F34		
	139	Spacer	100093-032	1		\vdash		with Heat Sink		
				1		\vdash	Supp	ort Screw		
				\vdash	\vdash	t^-	1			
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	\vdash	Specifications	301441	0		1				
	\vdash	Printed Master	301481	0	\vdash	一	t			
	\vdash	Schematic	301484	6	 	1	-			
	\vdash	Test Procedure	900114	0		\vdash	\vdash			
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					TEMPERATURE COMPENSATION	TRACK OF	FSET	ACCEMBLY	D120
RC V.	2			N-ELMER				ASSEMBLY PART NUMBER	REV.
	_	M	emory 9	Products Division	MATERIAL	. LIST		301483-002	_N
ASSEMBLY PART NUMBER	-002	7176	E ASS	Y, PWB SERVO	AMP	200 _model_SF/		3/23/76 _{SHEET} 1	.OF_6
PAR	301483-002	ITEM	REQD	PART NO.	DESCRIPTION			REMARKS	
IBLY	301	1	1	301482-001	Board, Processed				
SSEN		_2							
٦		3	1	301698-001	Heat Sink				
		4							
		5							
		6	1	100330-001	I.C.	7404	A50		
		7	2	101011-001	I.C.	7426	A45,55		
		8	5	101022-001	I.C.	311	A25,34	,B14,34,C14	
		9	10	101026-001	I.C.	1458	A14,82	5,C25,45,55,D25,4	5,
							E14,34	,62	
		10							
		11							
		12	6	101029-003	I.C.	5020	B45,62	,D55,E45,55,F45	
		13	1	101031-001	I.C.	75452	B55		
		14	2	101026-002	I.C. Lowbias	1458	D34, H	54	
		15							
		16	L						
	i	17	5	101052-001	Transistor	2N2222A	C3,D4,F	59,60,H49	
	ı	18	3	101053-001	Transistor	2N2907A	C4,F49,	H48	
	- 1	19	1	151002-001	Transistor M	PS-U01A	D16		
	į	20	1	151003-001	Transistor	EP2179	F34		
	1	21		151004-001	Transistor	EP2180	F20		
	1	22							
		23							
	ì	24	6	101034-001	Diode	1N5317	B3,C43,	48,D7,E9,16	
	ĺ	25							
	i	26	1	107041-002	Diode, Zener 5.1½ ± 3	2%	E29		
	[27	1	101058-010	Diode, Zener 6.8V	IN5235B	D11		
	1	28	3	107041-003	Diode, Zener 10.0V ±	2%	E32,G64	,65	
	1	29	1	161000-001	Diode, SCR	2N5060	D3		
	[30							
		31_	12	100243-101	Capacitor, Mica	100pf	A10,B18	,C31,40,51,63,D31	,42,
	ĺ	i					D51,65,		

Š.	Z			N-ELMER	MATERIAL	LIET	ASSEMBLY REV.	
	-		mory P	roducts Division	MAICHIAL	. LIS I	301483-002 N	
ASSEMBLY PART NUMBER	301483-002	TITLE	_AS	SY, PWB SERV	O AMP	200 TPI MODELSF/STDATE_3/23/76_SHEET_2O		
PAR	1483	ITEM	REQD	PART NO.	DESCRIPTION	_	REMARKS	
ΒĽ	8	32	1	100243-221	Capacitor, Mica	220pf	G52	
SEM		33	4	101002-156	Capacitor, Tant 20V	15uf	A7,63,65,67	
₹		34	3	101003-685	Capacitor, " 35V	6.8uf	A61,F5,7	
		35	1	101004-223	Capacitor, Poly	.022uf	C59	
		36	1	-472	Capacitor, "	.0047uf	H50	
		37	3	101005-102	Capacitor, "	.001uf	D13,E3,31	
		38	21	101042-103	Capacitor, Ceramic	.01uf	A23,59,B16,49,65,67,68,C16,21	
							C23,29,38,49,D32,48,58,E17,37	
							E65,G57,59	
		39						
		40						
		41						
		42	2	101086-473	Capacitor, Ceramic	.047uf	A18,B29	
		43	2	101086-474	Capacitor, Ceramic	.47uf	D67,G54	
		44	5	102701-103	Capacitor, Poly 1%	.01uf	C35,F65,67,G66,67	
		45	1	101001-685	Capacitor, Tant 6V	6.8uf	C60	
		46	1	102761-187	Capacitor, Tant 15V	180uf	C8	
		47						
		48	1	101086-334	Capacitor, Ceramic	.33uf	D68	
		49	1	101086-104	Capacitor, "	.luf	D22	
	į	50	3	100163-103	Resistor, Variable	10K	H57,59,61	
		51	2	138000-103	Resistor, Variable	10K	E18,19	
		52						
		53	i					
	i	54	1	100155-280	Resistor, 1%, W	806	G55	
		55	1	-289	Resistor, " "	1K	H51	
		56	1	-299	Resistor, " "	1.27K	D40	
		57	1	-334	Resistor, " "	2.94K	D59.	
		58	1	-339	Resistor, " "	3.32K	D23	
		59	1	-346	Resistor, " "	3.92K	A32	
		60	1	-365	Resistor, " "	6.19K	C34	
	- 1	61	2	100155-376	Resistor, 1%, W	8.06K	B31,37	

	1			N-ELMER				ASSEMBLY PART NUMBER	REV
REV	2			roducts Division	MATERIAL	LIST		301483-002	1
ASSEMBLY PART NUMBER	200	T:T1.6	ASS	Y, PWB SERVO	АМР	200 TF MODEL_SF/ST		3/23/76 SHEET 3	_OF
¥B∓	301483-002	ITEM		PART NO.	DESCRIPTION		Ι	REMARKS	
Σ	101	62	1	100155-378	Resistor, 1%, W	8.45K	G63		
EME	,	63	11	-385		10K	A19,22	,31,B21,30,E30,48	.50.
Ä							E52,53		-
		64	1	100155-389	Resistor, 1%, W	11K	E38		
		65	1		Resistor, " "	12.1K	A30		
		66	1		Resistor, " "	18.2K	D64		
		67	2	-407	Resistor, " "	16.9K	F62,63		
		68	2	-469		75K	D37,52		
		69	1	-481	Resistor, " "	100K	G62		
		70	4	-306	Resistor, " "	1.5K	A39,40	,828,38	
		71	5	-414	Resistor, " "	20K		38,B19,32	
		72	1	-524	Resistor, 1%, W	280K	G61		
		73	1	100155-335	Resistor, 1%, W	3.01K	D60		
		74	1	101156-511	Resistor, 5%, W	510	C61		
		75	1	101084-004	Resistor, 3%, 3W	50	E20		
		76	1	-023	Resistor, " "	60	E21		
		77	1	101156-241		240	G51		
		78	1	-471	Resistor, " "	470	G53		
		79	5	101156-100		10	C22.30	,D6,38,E28	
		80	1	-101	Resistor, " "	100	D10		
		81	10	-102	Resistor, " "	1K	B4.C11	,D15,20,E5,6,7,10	,G49
		82							
		83	8	101156-103	Resistor, 5%, W	10K	A29.B6	,C10,18,19,D9,F56	.57
		84							
		85	3	101156-104	Resistor, 5%, WW	100K	C6,D12	,E27	
		86	1	100155-298	Resistor, 1%, 144	1.24K	C62		
		87	1	101156-122	Resistor, 5%, WW	1.2K	C37		
		88	10	-152	Resistor, 5%, W	1.5K	A8,20,	21,28,C67,D39,43,	62,E
							F52		
		89					1		
		90	1	101156-164	Resistor, 5%, W	160K	B60		
		٠,							_

									D120
>	Τ_	-	: CD1/C 1F	V-ELMER				ASSEMBLY PART NUMBER	REV.
A.	Z			roducts Division	MATERIAL	LIST		301483-002	N
ASSENBLY PART NUMBER	301483-002	TITLE	AS	SY, PWB SERV	O AMP	200 TF MODEL SF/ST		3/23/76 SHEET 4	oF_6_
ART	483-		REOD	PART NO.	DESCRIPTION			REMARKS	
31.7	30	91	1	101156-182	Resistor, 5%, WW	1.8K	B5		
SE N.E		92	1	-202	Resistor, " "	2K	E4		
AS	İ	93	1	-203	Resistor, " "	20K	B11		
	-	94	1	-204	Resistor, " "	200K	D14		
		95	2	-622	Resistor, " "	6.2K	A16,B2	2	
		96	2	-273	Resistor, " "	27K	E8,11		
		97	1	-302	Resistor, " "	3K	А3		
		98	2	-304	Resistor, " "	300K	D66,E4	0	
		99	1	-472	Resistor, " "	4.7K	D8		
		100	2	-512	Resistor, " "	5.1K	B23,C2	8	
		101	2	-513	Resistor, " "	51K	C17,D6	3	
		102	4	-514	Resistor, " "	510K	B48,50	,E39,D21	
		103	1	-433	Resistor, " "	43K	C66		
		194	14	-752	Resistor, " "	7.5K	B42,43	,51,52,53,58,59,6	6,D53,
							E49,51	,F54,55,58	
		105	1	100155-294	Resistor, 1%, W	1.13K	A5		
		106	1	-411	Resistor, " "	18.7K	B20		
		107	1	-425	Resistor, " "	26.1K	B10		
		108	2	101156-155	Resistor, 5%, W	1.5Meg	F53,G4	8	
		109	1	142000-051	Resistor, 1%, 5W	0.2.1	F2		
		110	1	101156-911	Resistor, 5%, ¼W	910	A4		
		111	4	100155-548	Resistor, 1%, W	499K	A41,42	,B39,41	
		112	18	142006-356	Resistor,.1%,1/8W	4.99K	A17,B1	7,C20,41,42,50,52	,64,
			<u> </u>				C65,D1	9,28,29,49,50,E41	,43,
			T				E58,59		
		113					1		
		114							
		115	7	142006-385	Resistor, .1%, 1/8W	10K	C32,33	,53,58,D30,33,41	
		116							
		117							
		118	1	100247-013	Connector	6 Pin	J15		
		<u> </u>	_						
			<u> </u>	· · · · · · · · · · · · · · · · · · ·					
FC	DRM 20	9 18 37	77)	<u></u>	·		1		

REV.	Z			HELMER oducts Division	MATERIAL LIST	ASSEMBLY REV 301483-002
ASSEMBLY PART NUMBER	200	TITLE	AS	SY, PWB SERV	0 AMP 200 TI	
ART	301483-002	ITEM	_	PART NO.	DESCRIPTION	REMARKS
31.7	301	119				
SEM		120				
AS		121	16	100360-001	Pin, Wire Wrap	A43,44,B15,27,40,44,C39,44,
						D17,44,61,E61,F4,64,H63,65
		122				
		123				
		124	2	100147-001	Insulator, Mica	Use with F20,F34
		125	A/R	100248-922	Wire, Insulated 22GA	Jumper Across F14, F30
		126				
		127	3	300648-001	Jumper, Insulated	Jumper J2 A43 to A44
			L			J3 B40 to B44
						J4 C39 to C44
		128				
		129	L			
		130				
		131				
		132	A/R		Grease - Thermal Joint	Apply both sides of item 124
		133	1		Screw, Pan Hd	4-40 X 7/16"
		134	3	100251-200	Washer, Flat, Reduced O.D.	No. 4
		135	3	100042-200	Washer, Spring Lock	No. 4
		136				
		137	_		Screw, Pan Hd	4-40 X 날"
		138	_		Washer, Nylon Shoulder	Use with F20, F34
		139	· 1	100093-032	Spacer	Use with Heatsink Support Sc
		\vdash				
		<u> </u>	0	201441 001	Specification	
			0		Specification Printed Master	
			Ť	301481-001		
		-	0		Test Procedure	
			0		Test Specification	
		-	0	301965-001	Rework Instructions	
					Rework Instructions	+

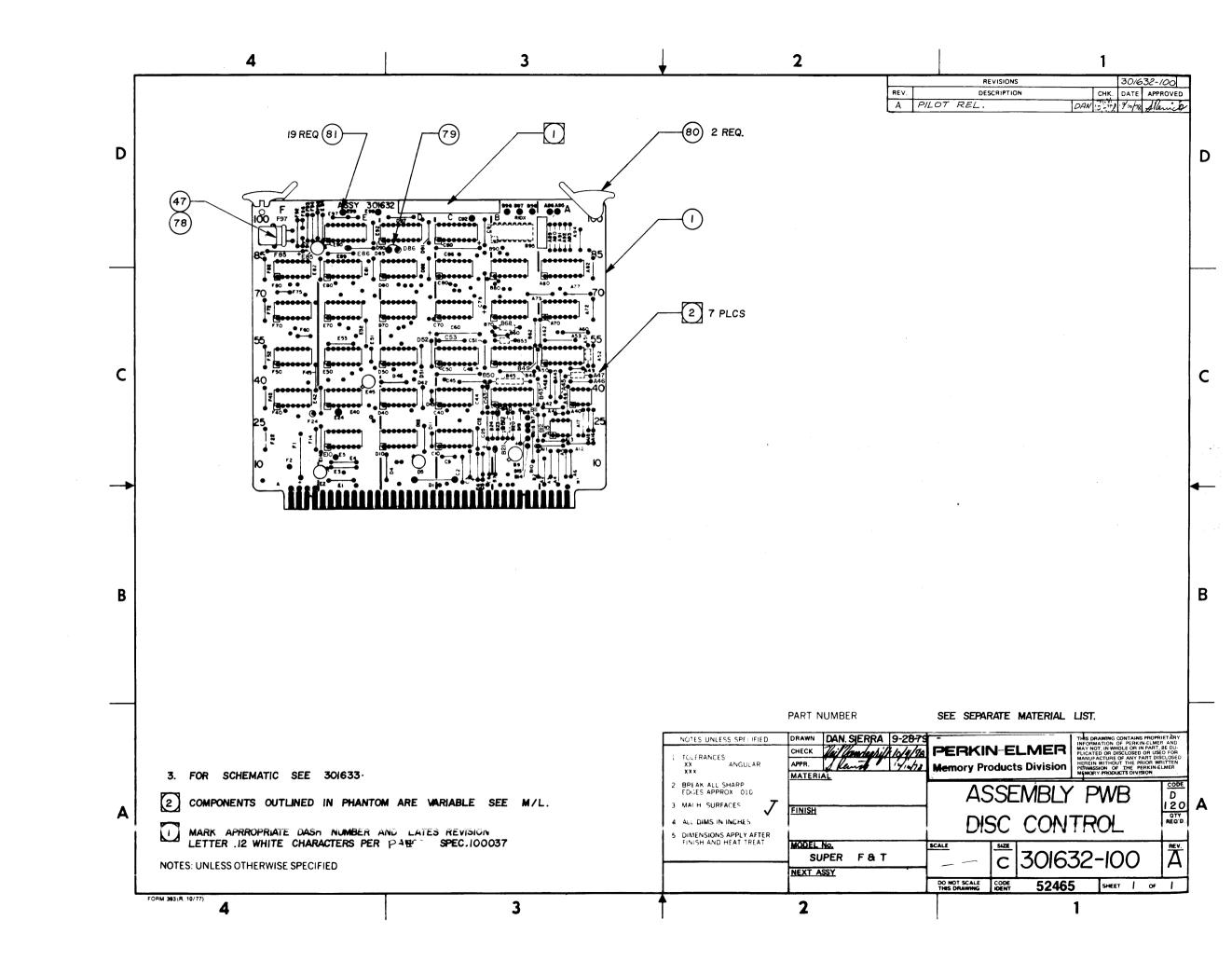
PERKIN-ELMER Memory Products Division	MATERIAL LIST	-ASSEMBLY PART NUMBER 301483-003
TITLE ASSY, PWB SERV	200 0 AMP MODEL SF/	TPI <u>'STDATE_3/23/76_SHEET_1OF</u>
ITEM REQD PART NO.	DESCRIPTION	REMARKS
1 1 301482-001	Board Processed	
2		
3 1 301698-001	Heat Sink	
4		
5		
6 1 100330-001	I.C. 7404	A50
7 2 101011-001	I.C. 7426	A45,55
8 5 101022-001	I.C. 311	A25,34,B14,34,C14
9 10 101026-001	I.C. 1458	A14,B25,C25,45,55,D25,45,
		E14,34,62
10		
11		
12 5 101029-003	I.C. 5020	B62,D55,E45,55,F45
13 1 101031-001	I.C. 75452	B55
14 2 101026-002	I.C. Lowbias 1458	D34, H54
15		
16		
17 5 101052-001	Transistor 2N2222A	C3,D4,F59,60,H49
18 3 101053-001	Transistor 2N2907A	C4,F49,H48
19 1 151002-001	Transistor MPS-U01A	D16
20 1 151003-001	Transistor EP2179	F34
21 1 151004-001	Transistor EP2180	F20
22		
23		
24 6 101034-001	Diode 1N5317	B3,C43,48,D7,E9,16
25		<u> </u>
26 1 107041-002	Diode, Zener 5.1V ± 2%	E29
27 1 101058-010	Diode, Zener 6.8V 1N5235B	D11
28 3 107041-003	Diode, Zener 10.0V ± 2%	E32,G64,65
29 1 161000-001	Diode, SCR 2N5060	D3
30		
31 12 100243-101	Capacitor, Mica 100pf	A10,B18,C31,40,51,63,D31,
30		

									D120
	Z	PE	RKI	N-ELMER				ASSEMBLY PART NUMBER	REV.
REV.	2			roducts Division	MATERIAL	LIST		301483-003	N
ER									
ASSEMBLY PART NUMBER	93	l	٨٥	CV DUD CEDU	o AMD	200 T		2/22/76 2	_
E N	301483-003	TITLE		SY, PWB SERV		MODEL SF/S	DATE	3/23/76 SHEET 2	OF_B
PA	148		REQD	PART NO.	DESCRIPTION			REMARKS	
JB	ĕ	32	1	100243-221	Capacitor, Mica	220pf	G52		
SSE		33	4	101002-156	Capacitor, Tant 20V	15uf	A7,63,	65,67	
•		34	3	101003-685	Capacitor, " 35V	6.8uf	A61,F5	,7	
		35	1	101004-223		.022uf	C59		
		36	1	-472		.0047uf	H50		
		37	3	101005-102	Capacitor, "	.001uf	D13,E3	,31	
		38	21	101042-103	Capacitor, Ceramic	.01uf	A23,59	,B16,49,65,67,68,	C16,21,
			ļ		•		C23,29	,38,49,D32,48,58,	E17,37,
							E65,G5	7,59	
		39							
		40							
		41							
		42	2	101086-473	Capacitor, Ceramic	.047uf	A18,B2	9	
		43	2	101086-474	Capacitor, "	.47uf	D67,G5	4	
		44	5	102701-103	Capacitor, Poly 1%	.01uf	C35,F6	5,67,G66,67	
		45	1	101001-685	Capacitor, Tant 6V	6.8uf	C60		
		46	1	102761-187	Capacitor, " 15V	180uf	C8		
		47							
		48	1	101086-334	Capacitor, Ceramic	.33uf	D68		
		49	1	101086-104	Capacitor, "	.1uf	D22		
		50	3	100163-103	Resistor, Variable	10K	H57,59	,61	
		- 51	2	138000-103	Resistor, Variable	10K	E18,19		
		52							
		53							
		54	1	100155-280	Resistor, 1%, 14W	806	G55-		
		55	1	-289	Resistor, " "	1K	H51		
		56	1	-299	Resistor, " "	1.27K	D40		
		57	1	-334	Resistor, " "	2.94K	D59		
		58	1	-339	Resistor, " "	3.32K	D23		
		59	_1	-346	Resistor, " "	3.92K	A32		
		60	1	-365	Resistor, " "	6.19K	C34		
		61	2	100155-376	Resistor, 1%, W	8.06K	B31,37		
FOR	RM 209	(R 3/	77)						

2				MATERIAL	LIST		ASSEMBLY PART NUMBER	D120 REV.
_	-	ory r	TOUCH DIVISION				301403-003	
903		ΛC	ev Dup cepv	O AMD			2/22/76 3	6
83-(MODEL 3F/31	DATE		OF
014	\vdash						newanka	
m								
	63	11	-385	Resistor, " "	10K			,50,
<u> </u>	_						,67	
				Resistor,				
	67		-407	Resistor,	16.9K			
	68	-		Resistor,	75K			
	69		-481	RESISTOR,	100K	G62		
	70		-306	Resistor, "	1.5K	A39,40	,B28,38	
	71_	5	-414	Resistor, " "	20K	A9,11,	38,B19,32	
	72	1	100155-524	Resistor, 1%, W	280K	G61		
	73	1	100155-335	Resistor, 1%, W	3.01K	D60		
	74	1	101156-511	Resistor, 5%, 場	510	C61		
	75	1	101084-004	Resistor, 3%, 3W	50	E20		
	76	1	-023	Resistor, " "	60	E21		
	77	1	101156-241	Resistor, 5%, 幼	240	G51		
	78	1	-471	Resistor, " "	470	G53		
	79	5	101156-100	Resistor, 5%, 🕍	10	C22,30	,D6,38,E28	
	80	1	-101	Resistor, " "	100	D10		
	81	10	-102	Resistor, " "	1K	B4,C11	D15,20,E5,6,7,10	,G49,50
	82							
	83	8	101156-103	Resistor, 5%, 🕍	10K	A29,B6	,C10,18,19,D9,F56	,57
	84	E21 - 44	Berthalt Fac - 138	Maria de Anton de Anton de Anton de Companyo de Anton de Companyo de Anton de Companyo de	1.44			
	85							
	86	1	100155-298	Resistor, 1%, "	1.24K	C62		
	87	1	101156-122	Resistor, 5%, 🕍	1.2K	C37		
	88	10	-152	Resistor, " "	1.5K	A8,20,	21,28,C67,D39,43,	62,E60
						F52		
	89							
	90	1	101156-164	Resistor, 5%, W	160K	B60		
	91	1		Resistor, 5%, W	1.8K	B5		
	301483-003 N	62 63 64 65 66 67 68 69 70 71 72 73 74 75 76 77 78 80 81 82 83 86 87 88 89 89	Name	Memory Products Division SERV PMB SERV SERV MITTAL MIT	Name	Name	NATERIAL LIST	MATERIAL LIST 301483-003

_								ASSEMBLY PART NUMBER	D120
REV.	Z.			V-ELMER roducts Division	MATERIAL	LIST		301483-003	И
ASSEMBLY PART NUMBER	301483-003	TITLE	_AS	SY, PWB SERV	O AMP	200 T MODEL SF/ST	PI 		
PART	483	ITEM	REQD	PART NO.	DESCRIPTION			REMARKS	
Вιγ	301	92	1	101156-202	Resistor, 5%, W	2K	E4		
SEMI		93	1	-203	Resistor, " "	20K	B11		
¥	l	94	1	-204	Resistor, " "	200K	D14		
		95	2	-622	Resistor, " "	6.2K	A16,B2	2	
		96	2	-273	Resistor, " "	27K	E8,11		
		97	1	-302	Resistor, " "	3K	A3		
		98	2	-304	Resistor, " "	300K	D66,E4	0	
		99	1	-472	Resistor, " "	4.7K	D8		
		100	2	-512	Resistor, " "	5.1K	B23,C2	8	
		101	2	-513	Resistor, " "	51K	C17,D6	3	
		102	2	-514	Resistor, " "	510K	E39,D2	1	
		103	1	-433	Resistor, " "	43K	C66		
		104	14	-752	Resistor, " "	7.5K	B42,43	,51,52,53,58,59,6	6,D53
							E49,51	,F54,55,58	
		105	1	100155-294	Resistor, 1%, 🕍	.1.13K	A5		
		106	1	-411	Resistor, " "	18.7K	B20		
		107	1	-425	Resistor, " "	26.1K	810		
		108	2	101156-155	Resistor, 5%, ¼W	1.5Meg	F53,G4	8	
		109	1	142000-051	Resistor, 1%, 5W	.2	F2		
		110	1	101156-911	Resistor, 5%, W	910	A4		
		111	4	100155-548	Resistor, 1%, 🕍	499K	A41,42	,B39,41	
		112	18	142006-356	Resistor, .1%, 1/8W	4.99K	A17,B1	7,C20,41,42,50,52	2,64,65
							D19,28	,29,49,50,E41,43,	58,59
		113		Albin alas anno material	Control of the Contro			distribution assessed in a succession.	بعجائهاجيما
		بنم							
		115	7	142006-385	Resistor, .1%, 1/8W	10K	C32,33	,53,58,D30,33,41	
		116							
		117							
		118	1	100247-013	Connector	6 Pin	J15		
		119							
		120							
		1	1				1		

REV.	Z			N-ELMER roducts Division	MATERIAL LIST		ASSEMBLY PART NUMBER 301483-003	REV
ASSEMBLY PART NUMBER	103		. AS	SY, PWB SERV	200 T 0 AMP		3/23/76 SHEET 5	e
H	3-0		REQD	PART NO.	DESCRIPTION	DATE	BEMARKS	
₽	301483-003	121		100360-001	Pin, Wire Wrap	842.44	,B15,27,40,44,C39	
MBI	96	121	10	100300-001	riii, mite mtap			
ASSE			-			D17,44	,61,E61,F4,64,H63	,65
	1	122						
		123	2	100147 001	Turnilatan Mira		500 504	
					Insulator, Mica		th F20,F34	
			A/K	100248-922	Wire, Insulated 22GA	Jumper	Across F14, F30	
		126 127	2	200640 001	1 Y 1		10 442 1 444	
		12/		300648-001	Jumper, Insulated	Jumper	J2 A43 to A44	
		100					J3 B40 to B44	_
		128		-				
		-						
		130 131						
			A/D	120100-001	Grease - Thermal Joint	Annly	both sides of ite	- 12
		133	1		Screw, Pan Hd		7/16"	01 12
		134	3	100251-200		No. 4	. //10	
		135	3	100042-200		No. 4		
		136			, , , , , , , , , , , , , , , , , , ,			
		137	4	100036-204	Screw, Pan Hd	4-40 X	½"	
		138	2	100063-014	Washer, Nylon Shoulder		th F20, F34	
		139	1	100093-032			th Heatsink Suppor	rt
						Screw		
							,	
				***************************************		*************		
			0	301441-001	Specification			
			0	301481-001	Printed Master			
			0	301484-001	Schematic			
			0	900114-001	Test Procedure			
			0		Test Specification			
			0	301965-001	Rework Instructions			
			0	302378-001	Rework Instructions			



	Mem	RKIN ELMER!	==	TERIAL L	IST			301632-000	Æ\
	Tr	ASSY. PWB. DISC	CONTROL	MODEL .				DATE 4-22-76 SHEET 1 0	F
	IYEM NO.	DESCRIPTION		PART NO.	REGD	AEV.	ACT. REV.	REMARKS	_
								NEXT ASSEMBLY/USED ON	
						L		400000, 400001	
	1	Board, Processed		301631-001		Î			
	2					<u> </u>			
	3	I.C.	311	101022-001	1		L.,	A40	
	4			ļ	↓	_	<u></u>		
	5	I.C.	1458	101026-001	1			A15	
	6	I.C.	74LS00	123029-001	1	-	-	870	
į	7	I.C.	74LS02	123030-001	1	_	\vdash	D40	
	8	I.C.	74LS08	123032-001	3		 	A70,C80,D10 C70	-
	10	I.C.	74LS10	123033-001	1 2	-		D70,E40	_
	11	I.C.	74LS11 74LS32	123034-001	1	-		050	
	12	I.C.	74LS74	123035-001	6	\vdash	\vdash	B80,C40,E50,F40,50,70	_
	13	I.C.	74LS123	123039-001	3	\vdash	_	B40,C50,90	
	14	I.C.	74LS123	123041-001	2		\vdash	A80,D90	
	15	I.C.	74LS293	123042-001	3			D80,E80,F80	_
	16	I.C.	74LS221	123043-001	1			A50	
	17	I.C.	74LS14	123047-001	2			C10,E10	
	18	I.C.	74LS20	123048-001	1			E70	
	19	I.C.	74LS192	123049-001	1			E90	
	20	I.C.	74221	123155-001	1			B50	
	21								
	22	Transistor	2N2222A	101052-001	5			B9,D5,E2,45,85	
	23				L.,		<u> </u>		
	24				<u> </u>		<u> </u>		
	25	Diode	1N5317	101034-001	2	_	<u> </u>	A11,E86	
	26	Diode, Zener 4.7V	1N5230B	101058-005	2		<u> </u>	B7,C43	
	27	Diode, Zener 5.1V	1N5231B	-000	1			B23	
	28 29	Capacitor, Mica	62pf	100243-620	5	_	\vdash	F91,96 A49,B60,C9,D11,F75	_
	30	Capacitor,	270pf 510pf	" -271 " -511	1	-	\vdash	£51	_
	30	Capacitor, "	510pt 620pf	" -621	1	-	\vdash	F60	
	32	Capacitor, Mica	120pf	100243-121	1		\vdash	A41	_
Ì	٥٤	· capacitor, rica	Trobi	100243-121	+	_	-		_
1	FO	RM 209 (R.12/74)	····						_

			NT LOAD ORPM 5 us Index and Se	ctor Pulse	Width							D12
REV.			PERKIN ELMER	МА	TERIAL L	ST				PAF	T NUMBER	REV
-			Memory Products Division	=		==				301	632-002	L
PART NUMBER	301632-002	1	TLE ASSY, PWB. DISC C	ONTROL	MODEL _				DATE	4-28-7	6 SHEET	1 of 1
Š	632	ITEM NO.	DESCRIPTION		PART NO.	REQD	REV.	ACT. REV.		P	EMARKS	
PAR	30]		USE MATE AND ADD THE FOLLOWING	RIAL LIST	301632-000		L			NEXT AS	SEMBLY/US	ED ON
=	Т	81										
DATE		82	Resistor, "	3K	101156-302	2		<u> </u>	A51	,B53		
<u> </u>	1	83						ļ				
0		84	Capacitor, Poly.	.0022uf	101004-222	2		<u></u>	_	,B68		
APPROVED		85	" "	.068uf	-683	1		<u> </u>	B45			
APPF		86				-		<u> </u>	-		014	016
_	J	87	Wire, Jumper		300648-001	2			Jump	er Jl	B14 to	
		<u> </u>				-		┝	-	J2	B17 to	вто
		<u> </u>				-		-	-			
		_				\vdash		-				
		H						_	_			
		95	Switch, Rocker		149002-008	1		\vdash	B90)		
		۴	on room, nooner	* -	143002-000	Ť		\vdash	-			
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	PEF	RKIN-ELMER!	M A	TERIAL L	IST			PART NUMBER RE
, إــٰـ	Mem	ory Products Division			=			301632-000 🛴
115.31	TIT	ASSY. PWB. DISC CO	NTROL	MODEL_	SUPER	F&T		DATE 4-22-76 SHEET 2 OF
E N	TEM NO.	DESCRIPTION		PART NO.	REOD	REV.	ACT. REV.	REMARKS
F					Γ			NEXT ASSEMBLY/USED ON
١,	33	Capacitor, Poly	.0022uf	101004-222	1	_	-	A2
Н	34		.0047uf	-472	1	_	\vdash	B11
ш	35		.0068uf	-682	1	_	-	A53
-	36	Capacitor, Cer. 100V		101042-103	23	\vdash		A16,18,43,46,52,72,82,94
F				101012 100	-	\vdash	\vdash	B49,C12,D42,D51,82,91,E8
H	寸			 	 	\vdash	\vdash	E82,92,F14,22,42,52,72,8
3	37	Capacitor, Poly.	.015uf	101004-153	1	\vdash	_	A4
_	38	Capacitor, "	.033uf	-333	1		1	B48
3	39				 	-		
4	10	Capacitor, Cer. 50V	.1uf	101087-104	1	_		B22
4	11	Capacitor, Tant. 35V	1uf	101003-105	2			C3,79
4	12	Capacitor, " 20V	2.2uf	101002-225	2			C6,F85
4	13	Capacitor, " 6V	6.8uf	101001-685	1			B19
4	14	Capacitor, " 20V	15uf	101002-156	1		·	F1
4	15	Capacitor, " 6V	56uf	101001-566	3			C48,60,86
4	16	Capacitor, Mica.500V	82pf	100243-820	1			D43
4	7	Crystal :	B.OOMHz	106500-001	1			F97
4	18							
4	19	Resistor, Variable	50K	100163-503	1			B95
5	50							
5	51	Resistor, 3%,3W	10	101084-003	1			D1
5	2	Resistor, 5%,¼W	62	101156-620	2			C2,E1
5	3	Resistor, " "	75	-750	1			E4
5	4	Resistor, " "	100	-101	2			B2,E94
-	55	Resistor, " "	510	-511	3			A12, .E89,F94
_	6	Resistor, " "	1K	-102	4			A45,E53,97,C5
_	7	Resistor, " "	1.5K	-152	1			D4
5		Resistor, " "	2K	-202	4			A6,60,D45,E3
5	9	Resistor, " "	3K	-302	1			F95
6	0	Resistor, " "	4.3K	-432	1			A13
6	1	Resistor, " "	5.1K	-512	3			A3,B43,C44
6	2	Resistor, 5%,¼W	8.2K	-822	1			A5
6	2A	Resistor, 5%, ₩	150	101156-151	1			D12

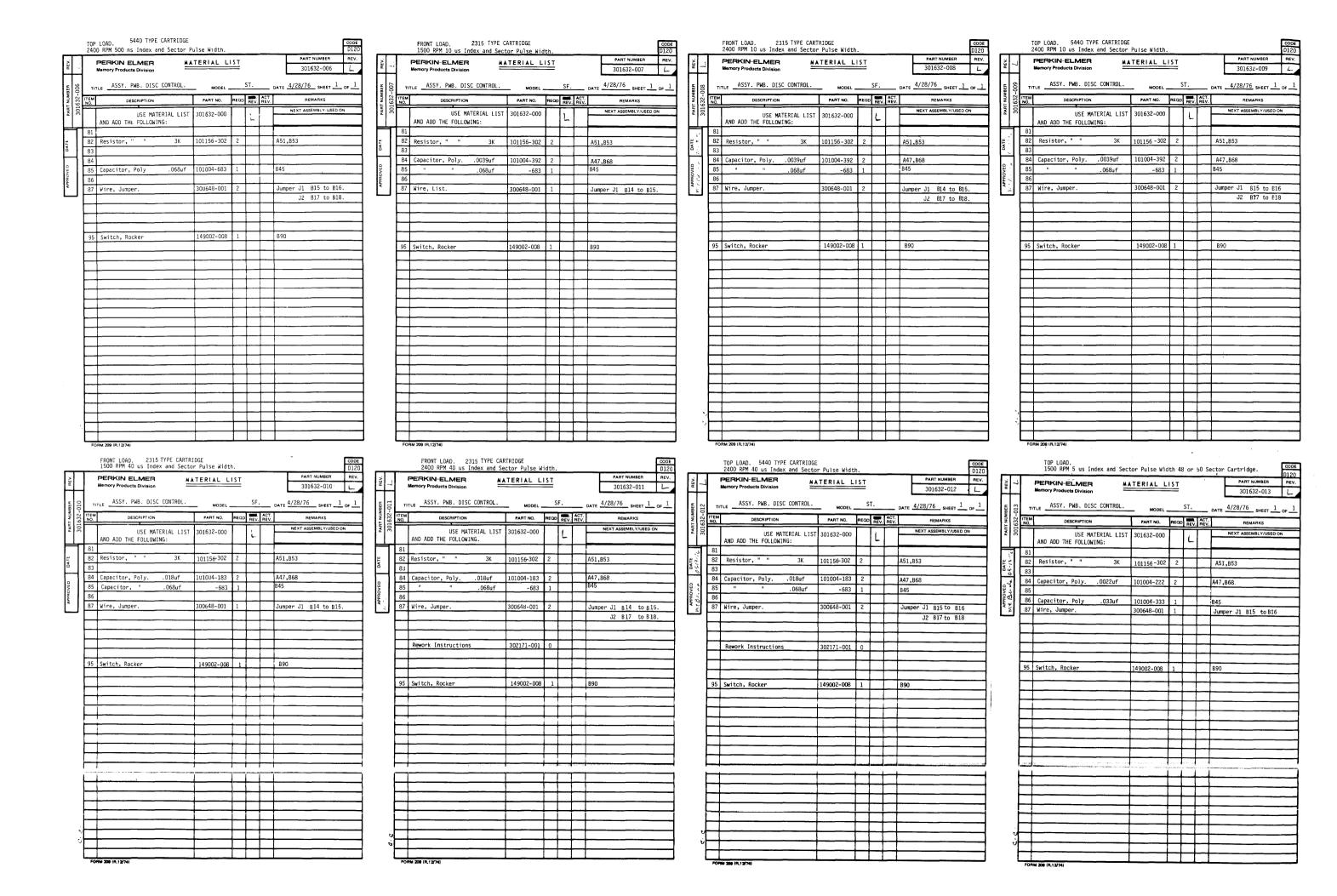
REV.	!		PERKIN ELMER Memory Products Division	MA	TERIAL L	ST				632-003	AE'
PART NUMBER	301632-003		TLE ASSY, PWB. DIS	CONTROL					DATE4-28-	76 SHEET 1	. OF _
Š	532-	ITEM NO.	DESCRIPTION		PART NO.	REQD	REV.	ACT. REV.	F	REMARKS	
PAR	301		USE MAT AND ADD THE FOLLOW	TERIAL LIST ING:-	301632-000		L		NEXT A	SSEMBLY/USED C)N
_	Т	81									
	Ш	82	Resistor, " "	3K	101156-302	2	_		A51,B53		
_	_	83				<u> </u>	_				
,	L		Capacitor, Poly	.0022uf	101004-222	2	-		A47,B68		
		85 86		.068uf	-683	1	-	\vdash	B45		
į		87	Wire, Jumper		300648-001	2	-		Jumper J1	B15 to B	16
_	נ		Hire, oumper		300040-001	-		_	J2	B17 to B	
						<u> </u>	<u> </u>	Ш			
		95	Switch Dockey		149002-008	1	-		B90		
		95	Switch, Rocker		149002-006	<u> </u>	\vdash		D90		
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1	PE	RKIN-ELMER,		ATERIAL L	IST			PART NUMBER F
	Mer	mory Products Division	=		=			301632-000
		TLE _ ASSY. PWB. DIS	C CONTROL					5 40 76
301632-000			IC CONTROL	MODEL				DATE _5-12-76 SHEET _ 3 OF
163	ITEM NO.	DESCRIPTION		PART NO.	REQD	REV.	REV.	REMARKS
3	l							NEXT ASSEMBLY/USED ON
+	63	Resistor, 5%,%W	10K	101156-103	12			A75,77,89,90,91,92,93,C
				1				D97,E14,42,52
	64	Resistor, 5%,4W	430	-431	2			B24,C25
1	65	Resistor, " "	12K	-123	1			B20
Š	66	Resistor, " "	18K	-183	1			A62
	67	Resistor, " "	30K	-303	4			B62,C45,F92,93
	68	Resistor, " "	150K	-154	3			C53,91,D52
_	69	Resistor	47K	-473	1			C51
	70	Resistor, 1%,¼W	511	100155-261	2			A17,48
	71	Resistor, " "	13K	-396	1			A44
	72	Resistor, " "	22.1K	-418	1			B10
	73	Resistor, " "	39.2K	-442	1			A42
	74	Resistor, " "	61.9K	-461	1			B12
	75	" 5%,1/4W	270	101156-271	1			F45
	76			<u> </u>	!			
	77			1				
	78	Wire, Solid		100051-024	A/R			
	79	Jumper, Insulated		300648-001	1			Jumper D85 to D86
	80	Extractor, Card		107901-001	2		\neg	
	81	Pin, Wire Wrap		100360-001	19			A95,96,B14,15,16,17,18,9
								B97,98,C92,D85,86,E5,24
	82			1				E98,99,F2,24
	83	Schematic		301633		K		
	84	Printed Master		301630			一	
	85	Specification		301438			一	
	86	Test Procedure		900108		\neg		
	87	Test Specification		900109		\neg		
	88					1	\dashv	
	89	Rework Inst.		301776-001	0		\neg	
	90	Rework Inst.		302364-001	0			
	91	REWORK INST		302376-001	٥		\neg	
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REV.	!		PERKIN-ELMER		TERIAL L	C T			PART NUMBER	D12
RE	L		Memory Products Division	==	TERIAL L	=			301632-004	L
ивен	004		TLE ASSY. PWB. DISC CONTROL		MODEL _	SF			DATE 4-28-76 SHEET 1	OF _
PART NUMBER	301632-004	ITEM NO.	DESCRIPTION		PART NO.	REQD	REV.	ACT. REV.	REMARKS	_
PAR	301		USE MATERIAL L AND ADD THE FOLLOWING:-	IST	301632-000		L		NEXT ASSEMBLY/USED ON	_
_	Т	81								_
DATE		82	Resistor, " "	3K	101156-302	2			A51,B53	
a;		83								
٥.	6.7.	84								
APPROVED			Capacitor, Poly .0	68u f	101004-683	1	<u> </u>	L_	845	
APPR		86								
_	J	87	Wire, Jumper		300648-001	1	<u> </u>	_	Jumper Jl B14 to B	15
		95	Switch, Rocker		149002-008	1			B90	_
		-	SWITCH'S NOCKET		149002-008				890	_
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į	-1		PERKIN-ELMER Memory Products Division	H A	TERIAL L	ST					NUMBER 2-001	REV
TAN I KOMBEN	100	ΤI	ASSY. PWB. DISC	CONTROL	MODEL _	SF			DATE	4-28-76	SHEET	
	301632-001	ITEM NO.	DESCRIPTION		PART NO.	REQD	REV.	ACT. REV.		REN	MARKS	
	3016			ERIAL LIST	301632-000		L			NEXT ASSE	MBLY/USED	ON
=	Т	81										
		82	Resistor, " "	3K	101156-302	2			A51	,B53		
	4	83					_		<u> </u>			
	Ш	84 85	Capacitor, Poly.	.0022uf	101004-222	2	_		A47, B45	B68		
	П	86	Capacitor, Poly	.068uf	-683	1	-	_	045			
		87	Wire, Jumper		300648-001	1			Jump	er J1	B14 to B	15
	٠											
						Щ		Щ				
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		95	Switch, Rocker		149002-008	1			B90			
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-		_	2400 RPM 500 ns Index an	a_Sect	or Pulse Wid	th.						D
REV.	_1		PERKIN-ELMER	M A	TERIAL L	IST				P,	ART NUMBER	R
-	_		Memory Products Division	=		_				3	01632-005	L
PART NUMBER	301632-005		ASSY. PWB. DISC CONT	ROL.	MODEL ,		SF.		DATE	4/28/	76 _{SHEET} 1	_ OF
Š	632	ITEM NO.	DESCRIPTION		PART NO.	REQU	REV	ACT. REV.			REMARKS	-
PAR	301		USE MATERIAL AND ADD THE FOLLOWING:	LIST	301632-000		L.		F	NEXT	ASSEMBLY/USED	ON
	Т	81					Г					
DATE		82	Resistor, " "	3K	101156-302	2			A51	,B53		
<u>.</u>		83										
	П	84										
Š,	П	85	Capacitor,Poly .(068uf	101004-683	1			B45			
APPROVED	П	86						ـــــــــــــــــــــــــــــــــــــــ				
	IJ	87	Wire, Jumper.		300648-001	2			Jump	er Jl	B14 to B15	
										J2	B17 to B18	
	ı					L		L				
						_						
								L_				
		95	Switch, Rocker		149002-008	_1	<u> </u>		B90			
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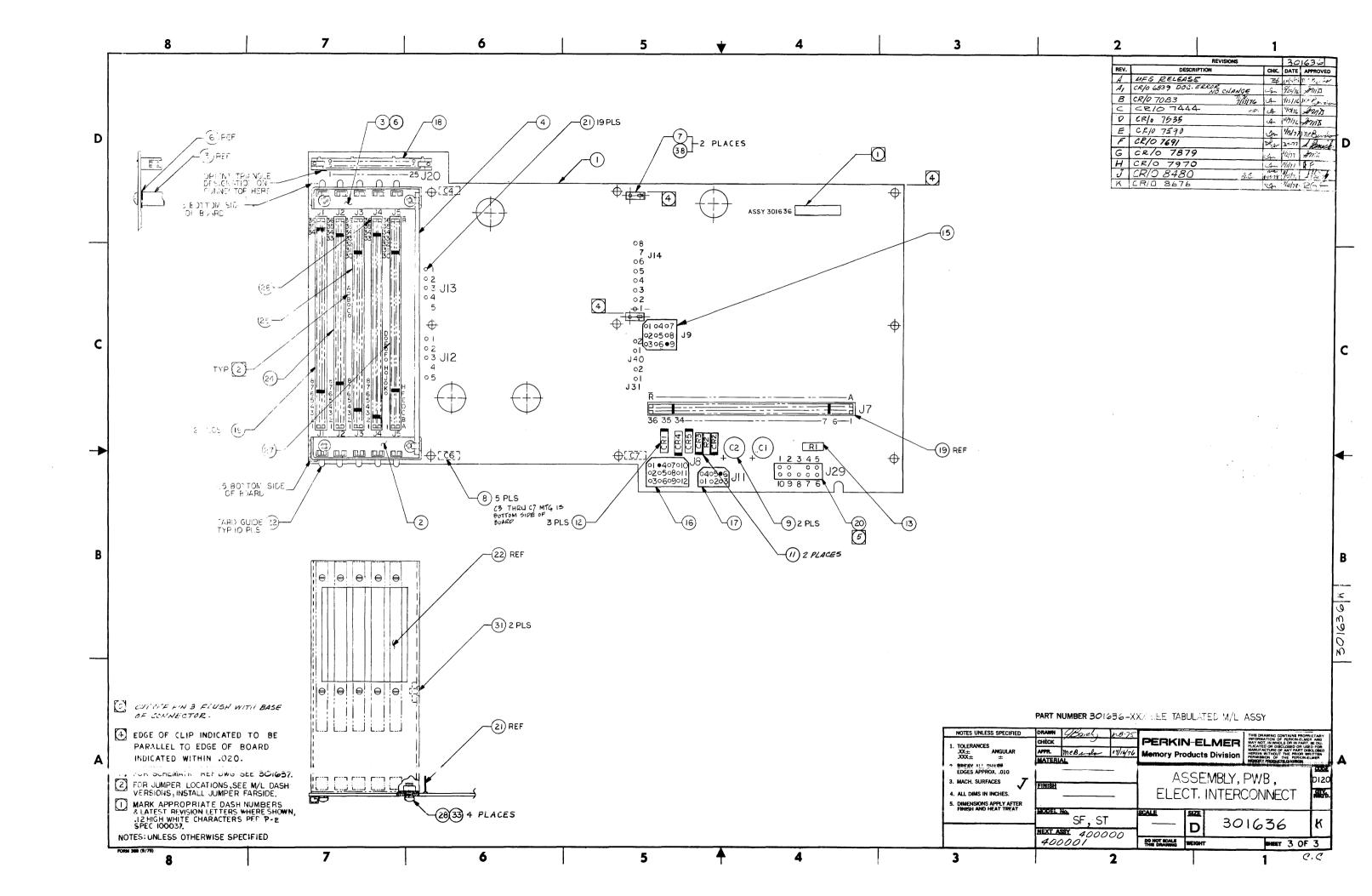


+	. 41		PERKIN ELMER M./ Memory Products Division	TERIAL L	S T			301632-014 L
<u>.</u>	-014		ASSY. PWB. DISC CONTRUL.	MODEL _	S	Τ.		<u> </u>
PART NUMBER	32-0	ITEM NO.	DESCRIPTION	PART NO.	REQD	REV.	ACT. REV.	REMARKS
РАН	301632	NO.	USE MATERIAL LIST AND ADD THE FOLLOWING:	301632-000		L		NEXT ASSEMBLY/USED ON
_	T	81						
		82	Resistor, " " 3K	101156 - 302	2		_	A51,B53
_	┚	83		ļ	!		<u> </u>	
	П	84	Capacitor, Poly0022uf	101004-222	2	-	-	A47,B68
0.000		85	022.5	222	1.		H÷	B45
ě		86 87	Capacitor, Poly .033uf	-333 300648-001	2	-		Jumper Jl B15 to B16
_	ال	67	Wire, Jumper.	300040-001	۲		\vdash	J2 B17 to B18
		\vdash			t	-	-	92 817 60 810
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		95	Switch, Rocker	149002-008	1			B90
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ž	15	TI	TLE ASSY. PWB. DI		MODEL .		ST.		DATE 4/28/76 SHEET 1	
PART NUMBER	301632-01	ITEM NO.	DESCRIPTION		PART NO.	REQD		ACT. REV.		_
PAH	3016			TERIAL LIST	301632-000		L		NEXT ASSEMBLY/USED ON	
	Т	81								
	П	82	Resistor, " "	3K	101156-302	2			A51,B53	
ì	41	83				Ш		<u> </u>		
	П	84 85	Capacitor, Poly.	.0022uf	101004-222	2			A47,B68	_
		86		.068uf	-683	1	-		B45	
٠		87	Wire, Jumper.		300648-001	1	-	-	Jumper J1 B15 to B16	
-	ן נ		,			Ť	_	-	odiliper of B13 to B10	_
		_								
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		95	Switch, Rocker		149002-008	1	-		B90	
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		FOR	RM 209 (R,12/74)							

		TOP LOAD, 5440 TYPE CARTRIDG 1500 RPM 40 us Index and Secto		h.					D120	П	7.	1		ILOT RELEASE UNITED BE USED F	5. ID 7116	DEBR	IN-ELME	- R	V1 (4)	
		PERKIN ELMER MA	TERIAL L	IST				T NUMBER	REV.				1.11	TENTER PIE		Memory	Products Div	ision		
╛		Memory Products Division		==			301	632-018			120			**	THIS DA	AWING CONTA	INS PROPRIETARY IN	FORMATION OF IN PART, BE DU-		D120
8	TIT	ASSY, PWB. DISC CONTROL.	MODEL _	:	ST.	_ DATE	4/28/7	6_ SHEET	1 or 1		301632-021	1.5	-57.7			D OR DISCLOSED FOR OF THE PE	INS PROPRIETARY IN AY NOT, IN WHOLE OF ED OR USED FOR MA HEREIN WITHOUT TH RKIN-ELMER MEMOR	PRIOR WRITTEN PRODUCTS DIV.	301632-021	С
301632-018	ITEM NO.	DESCRIPTION	PART NO.	REGE	REV. RE	т. v.	RI	MARKS) 		5u	p Load, 2400 s Index & Sec	ctor Pulse Widt	1				
UIC.	= 1	USE MATERIAL LIST	301632-000	Π	1. 1	T	NEXT AS	SEMBLY US	ED ON	1			48 AS	to 50 Sector SY., PWB, DIS	r Cartridge SC CONTROL		MODELST		/15/78 1	1
,		AND ADD THE FOLLOWING:		_	1-				_					PARTING		DESCRIPTION	ON.			
	81			1	++					1		1	1	301632-000	Assy, Pwb.,	Disc Cont	rol - Basic	C. I	۷	
	82 83	Resistor, " " 3K	101156 -302	2	+-+-	A51	,853			1		-								
	84	Capacitor, Poly018uf	101004-183	2		A47	,B68			1		81	-	-				 		
	85	" " .068uf	-683	1		B45						82	2	101156-302	Resistor, 5%	, ¹aW	3K	A51,B53		
-	86		ļ	Ļ	++							83								
	87	Wire, Jumper.	300648-001	1	++	Jur	mper J1	B15 to	R10	1 []		84	2	101004-222	Capacitor, P	oly.	.0022uf	A47,B68		
	-		 	+	++	_				1		85 86	1	101004 222	Capacitor, P	-1.,	.033uf	B45		
										1 H	+	87	2		Wire, Jumper	Jiy.	.03301		B15 to B16	
				oxdot	\Box	Ц.,				4			_					-	B17 to B18	
				+	╁┼	+-				1										
	95	Switch, Rocker	149002-008	╀	++	B90				1		-	-							
				\top		\neg				1 H	+	95	1	120909-001	Header, Prog	rammed		B90		
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T0P 150	LOAD. 5440 TYPE O RPM 500 ns Index a	CARTRIDGE nd Sector P	ulse Width.					D120			TOP LOAD. 5440 TYPE CAR 1500 10 us Index and Secto		Width.					00E
	PERKIN-ELMER Memory Products Division	MA	TERIAL LI	ST			9ART NUMBER 301632-016	REV.	REV.		PERKIN-ELMER Memory Products Division	MATE	ERIAL LI	S T				REV.
	TLEASSY. PWB. DIS	C CONTROL.	MODEL _		ST.		DATE 4/28/76 SHEET 1	of 1	E 21	,	TLE ASSY. PWB. DISC CONTI	ROL	MODEL _		ST.		DATE 4/28/76 SHEET 1 OF	
ITEM NO.	DESCRIPTION				REV.			\dashv	301632-017	ITEM NO.	DESCRIPTION		PART NO.	REQD	REV.	ACT.	REMARKS	\dashv
	USE MAT	ERIAL LIST	301632-000		L	_	NEXT ASSEMBLY/USED OF	N	PART 3016	F		LIST 30	01632-000		L.		NEXT ASSEMBLY/USED ON	
\dashv	AND ADD THE FOLLOWIN	NG:		_	上	<u> </u>				_	AND ADD THE FOLLOWING:	_			-			_
81	Danifortino II II	- 04	101156 000	-	├	-	<u> </u>		3,76	81		K 10				-	151.050	\dashv
82 83	Resistor, " "	3K	101156-302	2	⊢	-	A51,B53		5.13	83		SK 110	01156-302	2	\vdash	-	A51,B53	\dashv
84					╁	\vdash		_	H	-	Capacitor, Poly0039u	ıf 10	01004-392	2	\vdash		A 47,B68	\neg
85	Capacitor, Poly	.068uf	101004-683	1			845		APPROVED YY C B C C C	85	" ".068u	ıf	-683	1			B45	
86									CB	86								_
87	Wire, Jumper.		300648-001	1	-	_	Jumper J1 B15 to B16 .		ءَ ۔	87	Wire, Jumper.	30	00648-001	1	Н		Jumper J1 B15 to B16	
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95	Switch, Rocker		149002-008	1			B90			95	Switch, Rocker	14	49002-008	1			B90	_
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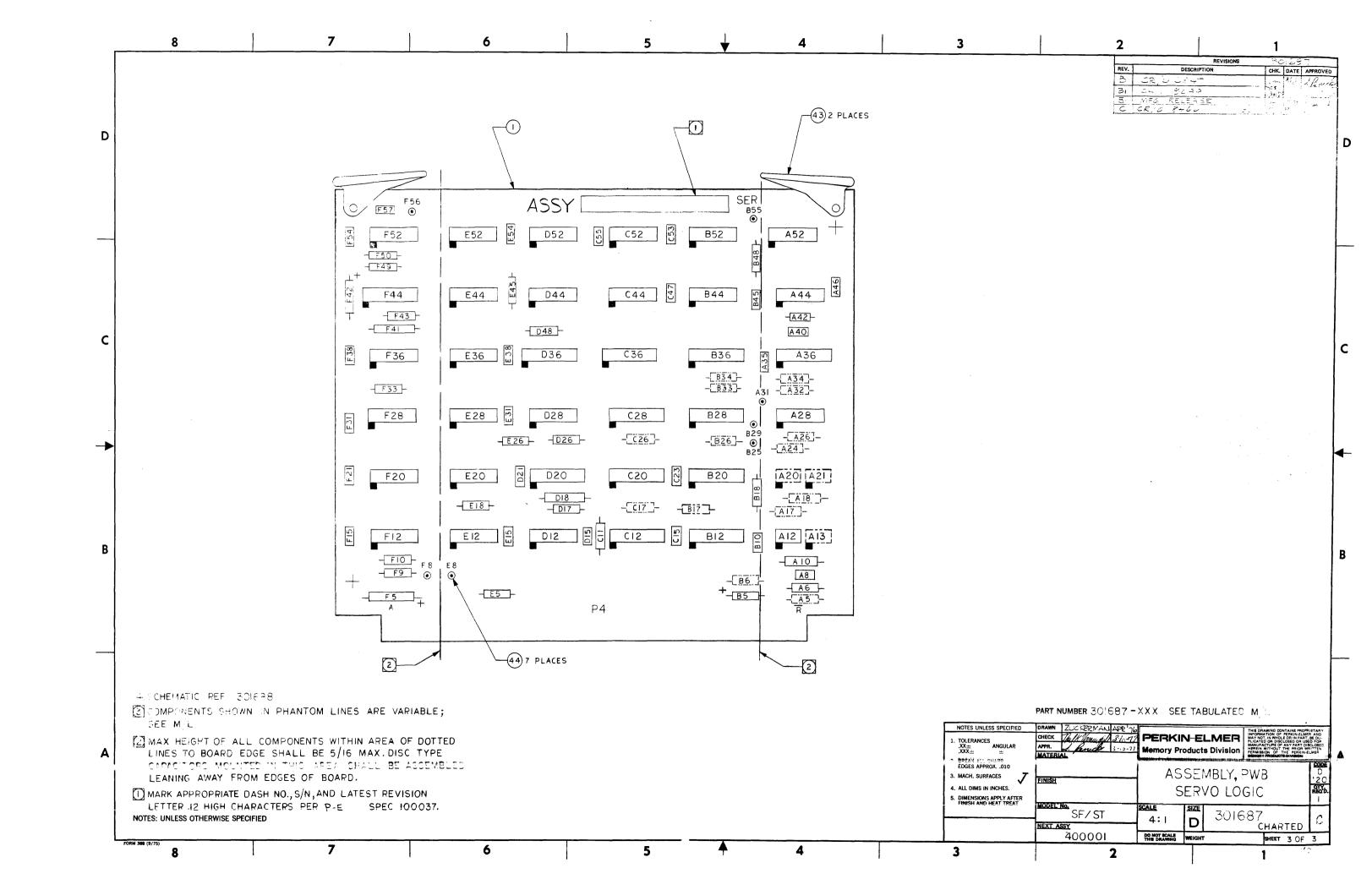


		PERKIN ELMER Memory Products Division	TERIAL LI	ST			301636-000 K
8	TI	ASSEMBLY, PWB. ELECTRONICS INTERCONNECT	MODEL _	SF &	ST		DATE 4-15-76 SHEET 1 OF
301636-000	ITEM NO.	DESCRIPTION	PART NO.	REOD	REV.	ACT.	REMARKS
3016							NEXT ASSEMBLY/USED ON
_	ŀ÷	Donald Danasand	201625 001	ļ.,	,	_	
L		Board, Processed	301635-001	1	-	-	
l	2	End, Card Cage	302 17-001	1		-	
1	3	End, "	-002	1		┝	
ļ	5	V	302-12-001	1	_	-	·
l	-	Insulator, Card Cage	301447-001	2			
۱	7	Clip, Retaining - PWB	301575-001	2	_		
j	8	Capacitor .1 uf	101037-104	5		_	C3,4,5,6,7
	9	Capacitor 470 uf		2		_	C1,C2
	10			-			,.
	_	Diode 1N4003	100127-001	2	_	\vdash	CR2.3
	12	Diode 1N5624	107026-001	3			CR1,4,5
	13	Resistor, 5%, W 5.1K	101156-512	1			R1
	14	Resistor, 5%, WW 10K	101156-103	1			R2
	15	Connector, 9 Pin	100247-001	1			J9
	16	Connector,12 "	-012	1			J8
	17	Connector, 6 "	-013	1			J11
	18	Connector,50 "	101040-001	1			J20
	19	Connector,72 "	105024-001	2			J1,7
	20	Connector, Header, 10 Pin	120905-001	1			J29
	21	Pin, Wire Wrap	100360-003	19			J12,13,14,31,40
	22	Guide, Card	101064-001	10			
	23						
	24	Connector 72 Pins	105024-002	1			J2
	25	Connector 72 Pins	- 006	1			J3
	26	Connector 72 Pins	-007	1			J4
	27	Connector 72 Pins	-008	1			J5
	28	Screw, Pan Head	100036-305	4			6-32 x 5/16"
	29					L_	
	30						
	31	Screw, Flat Head, 82 ⁰	100040-304	2			6-32 x 1/4
	32						

ě.	z		PERKIN-ELMER	TERIAL LI	ST				PART NUMBER	-
-	Ì	ł	Memory Products Division		_				301636-000	
18ER	000	L _	ASSEMBLY, PWB TLE ELECTRONICS INTERCONNECT	MODEL _				DATE	4-15-76_ sнее	r_2 o
PART NUMBER	301636-000	ITEM NO.	DESCRIPTION	PART NO.	REQD	REV.	ACT. REV.		REMARKS	
PARI	3016	\vdash			Г	Γ			NEXT ASSEMBLY/U	SED ON
	ľ									
=	Т	33	Washer, Split Lock	100042-300	4			No.	6	
DATE	١	34								
ď	J	35								
_	1	36								
veD		37								
APPROVED	1	38	Rivet, c'snk Hd, 100°,Copper	144505-202	2			L		
¥	1	39	Rework Instructions	301641-001	0	Α				
_	_	40	Rework Instructions	301734-001	0	A				
			Printed Master	301634-001	0					
			Schematic	301637-001	0	D				
			Procedure,Test	900159-001	0					
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	Į	Memory Products Division		=			3	01636-001	H
301636-001	L	ASSEMBLY, PWB ELECTRONICS INTERCONNECT	MODEL _	SF 8				-76 SHEET 1	of <u>1</u>
301636-001	NO.	DESCRIPTION	PART NO.	REQD	REV.	ACT. REV.		REMARKS	
301		USE MATERIAL LIST AND ADD THE FOLLOWING:	301636-000		ĸ		NEXT	ASSEMBLY/USED (ON
	41	Wire, Solid, Insulated	100383-930	A/R			Jumper	A 1	to B
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FORM 209 (R.12/74)



		RKIN-ELMER lory Products Division	MATERIAL L	ST				301687-000	C
	TIT	ASSY. PWB. SERVO LOGIC	MODEL -	SF,	/ST_		DATE	4-29-76 SHEET 1	_ OF _
ı	ITEM NO.	DESCRIPTION	PART NO.	REOD	REV.	ACT REV.	Г	REMARKS	
			1		Ī	Ī		NEXT ASSEMBLY USED	ON
				<u> </u>	L _	_			
Ì	1	Board, Processed	301686-001	1	ļ		<u> </u>		
i	2			 	↓	<u> </u>	_		
1	3	I.C. 1458		1	-	-	A12		
1	4	I.C. 1408		1			A44		
ł	5	I.C. 74LS00	-+	1_	ـ		D28		
	6	I.C. 74LSU2		1	-		E28		
1	7	1.C. · 74LS04		2	 			,E44.	
	ક	I.C. 74LSO		4	1	!	A52	,C52,E52,F12.	
	9	I.C. 74L510	0 123033-001	1	<u> </u>	└	E15	·	
1	10	I.C. 74LS11		3		L_	B52	,052,F2U.	
	11	I.C. 74LS32		2	<u> </u>	ļ		3,F52.	
	12	I.C. /4LS74	123036-001	4	-	ļ		,£20,F28,F36.	
	13	I.C. 74LS86	5 123038-001	3			844	,C44,E36	
	14	I.C. 74LS12	23 123039-001	2			020),F44.	
	15	I.C. /4L515	57 123040-001	2	<u> </u>		B12	,C12.	
	16	1.C. 74LS19	93 123041-001	3		Ĺ	R36	,C36,D36.	
	17	I.C. /4L528	33 123044-001	3	L.	!	A36	,B28,C28.	
	18	I.C. 74LS17	5 123045-001	2	I		B20	,C20	
	19								
	20				Γ				
	21	Capacitor, Mica 33p	of 100243-330	1	Π		B45		
	2.2	Capacitor, " 470g	of -471	1			F57		
	23	Capacitor, Poly .0015u	1 101005-152	1			F41		
	24		1 101004-4/2	1			D18		
	25	Capacitor, " .010	u† -103	1			A10		
	26	Capacitor, Ceramic 100V .01	lut 101042-103	20			A8,	35,40,46,B10,C15,	23,4
	\Box			T			_	,55,D15,E15,31,38	
			1					,21,31,38,54	
	27	Capacitor, Ceramic 50V .1	luf 101086-104	1			021		
	28		2uf 101002-225	1		T	F42		_
	29		ouf 101002-156	1		1	В5		
				†	1	1	_		
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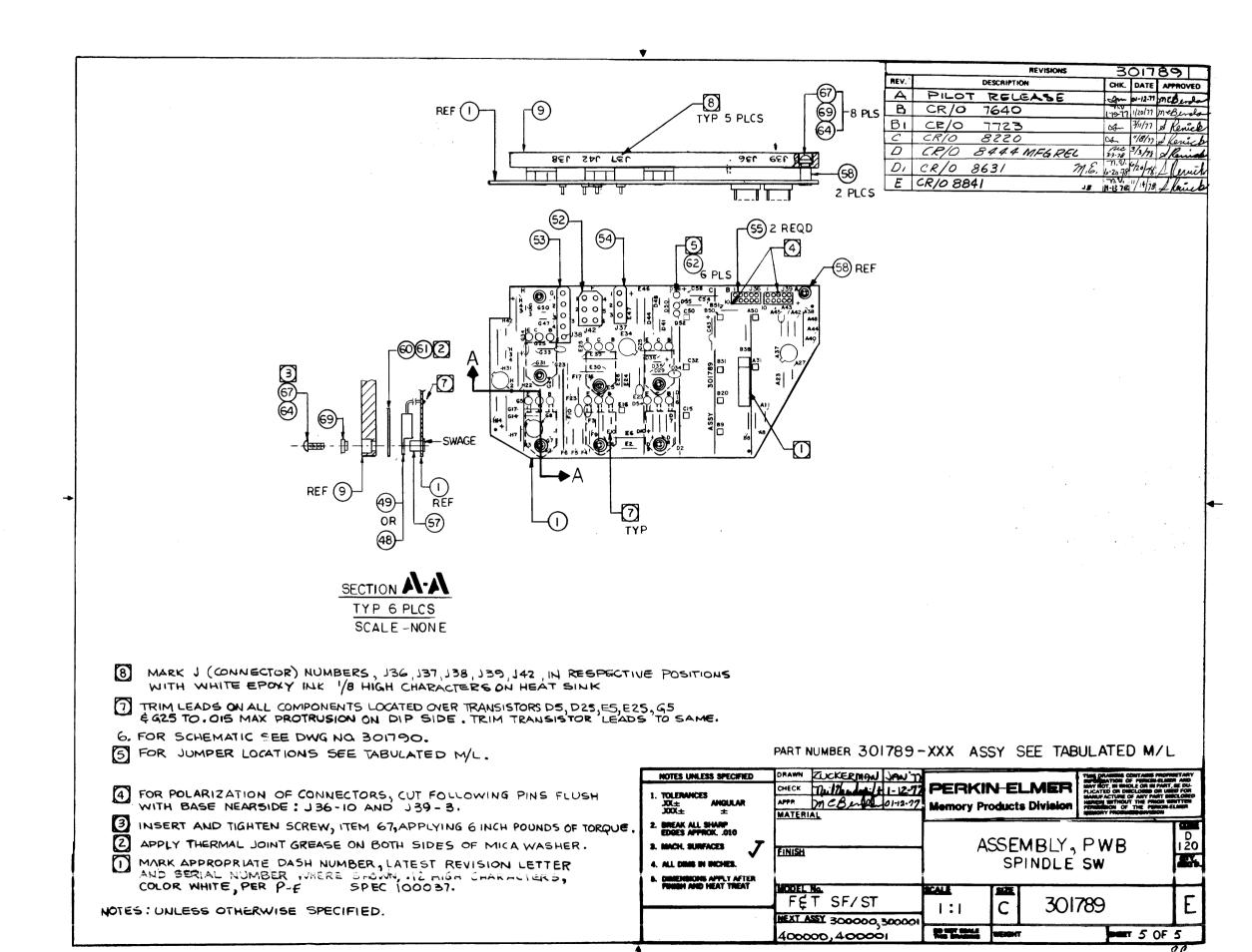
ne.	 	-	RKIN ELMER ory Products Division	ATERIAL L	IST		301687-003 5
181 H	903	111	ASSY. PWB. SERVO LOGIC	MODEL .	SF,	/ST	DATE 5-3-76 SHEET 1 OF 1
PART NUMBER	301687-003	ITEM NO	DESCRIPTION	PART NO.	REGD	REV. RE	T REMARKS
HAH	301		USE MATERIAL LIST AND ADD THE FULLWING:	301687-000			NEXT ASSEMBLY USED ON
==	П	63	Wire, Jumper	300648-001	2		Jumper A31 to B25.
40	П				<u> </u>		Jumper E8 to F8.
	11	64	Wire, Solid Insulated	10u248-924	A/R	-	Jumper Across A17.
	П	-4		 	├	-	<u> </u>
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	J		RKIN-ELMER	<u>M A</u>	TERIAL L	ST			301687-000	C
t		Mem	nory Products Division						301007 000	
	301687-000		TLE ASSY. PWB. SERV	O LOGIC	MODEL _				DATE 4-29-76 SHEET 2	OF 3
ł	687	NO.	DESCRIPTION		PART NO.	REQD	REV.	ACT. REV.	REMARKS	
ļ	301	П			T T				NEXT ASSEMBLY/USED OF	,
l										
	Т	30	Capacitor, Tant.	6V 56uf	101001-566	1			F5	
	1	31			L			_		
		32	Resistor, 58,≒W	1K_	101156-102	1		_	E45.	
	1	33	Resistor, " "	2.2K	-222	1_		_	F43.	
	1	34	Resistor, 1%,"	3.48K	100155-341	1_		<u> </u>	B48.	
	1	35	Resistor, " "	4.64K	-353	1_		<u> </u>	A6	
	1	36	Resistor, 5%,"	10K	101156-103	8	<u> </u>	_	C11,D26,48,E18,26,F10	,33,50
	_	37	Resistor, 1%,"	12.7K	100155-395	2		<u> </u>	A42,E5	
		38	Resistor, 5%,¾W	15K	101156-153	1		L.	F49	
		39	Resistor, " "	20K	-203	1	<u> </u>	_	D17.	
		40				Ь.				
		41				_		_		
		42	Wire, Solid Insulat	ed	100248-924	A/R		_	Jumper Across B18	
		43	Extractor, Card		107901-001	2	<u> </u>	 		
		44	Pin Wire Wrap		100360-001	7			A31,B25,B29,B55,E8,F8	,F56
		45				_	ļ			
		46	Cala		 	<u> </u>	-	├—	ļ	
		<u> </u>	Schematic		301688-001	0	3	├_	ļ	
		\vdash	Printed Master		301685-001	L ⁰ -	Ē	├		
		\vdash	Specification		301439-001	0	├—	-		
		Н	Test Procedure		900110-001	.0	-	-		
			Test Specification		900111-001	_0_		-		
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BEH	004	717	ASSY. PWB. SERVO LOGIC	MODEL .	SF,	/ST		DATE
PARI NUMBER	301687-004	ITEM NO.	DESCRIPTION	PART NO.	REQD	REV.	ACY. REV.	REMARKS
A	301		USE MATERIAL LIST AND ADD THE FULLOWING:	301687-000		C		NEXT ASSEMBLY/USED ON
==	T	63	Wire, Jumper	300648-001	2			Jumper A31 to B29.
		-		10.004.1.0.1				Jumper L8 to F8.
_	-	64	Wire, Solid Insulated	100248-924	A/R			Jumper Across A17.
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4	-	ERKIN-ELMER mory Products Division	<u>*</u>	TERIAL L	15 T			E	301687-001	E
30168/-001		TLE ASSY. PWB. SEF	VO LOGIC	MODEL	SF/S	T		DATE	-3-76 SHEET 1	_ of _1
8	TEM NO.	DESCRIPTION		PART NO.	REQD	REV.	ACT. REV.		REMARKS	
108		USE MAT AND ADD THE FOLLOWI	ERIAL LIST	301687-000		C		F	NEXT ASSEMBLY/USED	ON
	50	I.C.	5020	101029-003	3			A13,A	20,A21.	
٤	51									
5	2	Resistor, 5%,≒W	7.5K	101156-752	6			B17,B	26,B33,B34,C17,	C26.
· -	3	Resistor, 1%,"	49.9K	100155-452	1			A5.		
ı ⊢	54	Resistor, " "	63.4K	-462	1			A17.		
ı ⊩	55	Resistor, " "	100K	-481	1			B6.		
_	6	Resistor, " "	200K	-510	1			A26.		
-	7	Resistor, " "	402K	-539	1			A24.		
- 10	8	Resistor, 5% "	820K	101156-824	1			A32.		
	9	Resistor, " "	1.6M	-165	1		_	A34.		
-	0			ļ <u>.</u>	\sqcup		Ĺ	<u> </u>		
-	1	Capacitor, Poly.	.01uf	101004-103	1		_	A18.		
-	2	N5 - 1			\vdash			-	· <u>-</u>	
۴	3	Wire, Jumper		300648-001	1		\vdash	Jumpe	r A31 to B25.	
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PART NUMBER	200	TI	TLE ASSY. PWB. SERV	O LOGIC	MODEL.		_		DATE	5-3-76 sнеет	1 or 1
UN F	-282	NO.	DESCRIPTION		PART NO.	REQD	REV.	ACT. REV.		REMARKS	
PAF	301687-002		USE MATE AND ADD THE FOLLOW	ERIAL LIST ING:	301687-000		C		F	NEXT ASSEMBLY/USED	ON
Г	Ţ	50	I.C.	5020	101029-003	3			A13	,A20,A21	
DATE	1	51						Γ			
ď.		52	Resistor, 5%,₺W	7.5K	101156-752	6			B17	,B26,B33,B34,C17,	C26.
0		53	Resistor, 1%,"	49.9K	100155-452	1			A5.		
DVE		54	Resistor, " "	63.4K	-462	1			A17		
APPROVED	1	55	Resistor, " "	100K	-481	1			В6		
٠.	1	56	Resistor, " "	· 200K	-510	1			A26	i.	
	-	57	Resistor, " "	402K	-539	1			A24		
		58	Resistor, 5%,"	820K	101156-824	1			A32		
		59	Resistor, " "	1.6M	-165	1			A34		
		60									
		61	Capacitor, Poly	.01uf	101004-103	1			A18		
		62									
		63	Wire, Jumper		300648-001	1			Jum	per A31 to B29.	
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	7	140	mory Products Division	===		=				301789- 000	E
	-000	т	ASSY. PWB. SPINDLE SW		MODEL .	ŞF.	&T & ST		DATE	12-13-76 SHEET1	OF
I	301789-0	ITEM NO.	DESCRIPTION		PART NO.	REQU	REV.	ACT. REV.		REMARKS	
۱	3017							Γ		NEXT ASSEMBLY/USED	ON
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=	Т	1	Board, Processed		301788-001	1					
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		9	Plate, Heatsink		301932-001	1			Ŀ		
		_	IC	74LS123	123039-001	1			C50		
		11	IC	74LS42	123037-001	1			B50		
			IC	75451	101139-001	3		<u> </u>	_	20,31	
		13	IC	74LS157	123040-001	1			A50		
		14	IC	74LS74	123036-001	1_	_	<u> </u>	A31		
		15	IC	7406	100331-001	1			C15		
	1	16	10	NE555	101023-001	1	L	L-	E16		
		17	IC	7.4LS:02	123030-001	1	Ļ	<u> </u>	C32		
		18	Capacitor,Tant. 35V	lu+	101003-105	1	_		E47		
			Capacitor, " 35V	6.8uf	101003-685	3	<u> </u>	<u> </u>	A38	,H22,43	
		20	Capacitor, 20V	15uf	101002-156	2	_	ļ	E6,	H7	
		21	Capacitor, Cer. 50V	.33uf	101086-334	6		<u> </u>	D48	,F6,9,G24,47,H42	
		22	Capacitor, Cer.	.47uf	101086-474	1_		<u> </u>	D10		
		23	Capacitor, Cer.100V	.01uf	101042-103	7	-	-		,27,D2,35,E10,G7,	н34
		24	Capacitor, " 100V	.01uf	102662-001	6	-	-	_	,36,F3,10,G50,H3	
		25	Capacitor 6V	56uf	101001-566	3	<u> </u>	├-	C43,	58,D34	
		26				├		├			
		27	Diode, Zener 4.7V	1N5230B	101058-005	1		-	A45		
		28				├ -	-	-	-		
		29			<u> </u>	\vdash	-		⊢-		
		30	Resistor, 5 ,LW	510	101156-511	6	-	├-	D41	,E8,F5,G14,23,53	
		31	<u> </u>		1		<u> </u>	-	536	16.500	
		32 33	Resistor, 1 , W	<u>925</u>	100172-281	13	<u> </u>	 	£30.	,46,F23	

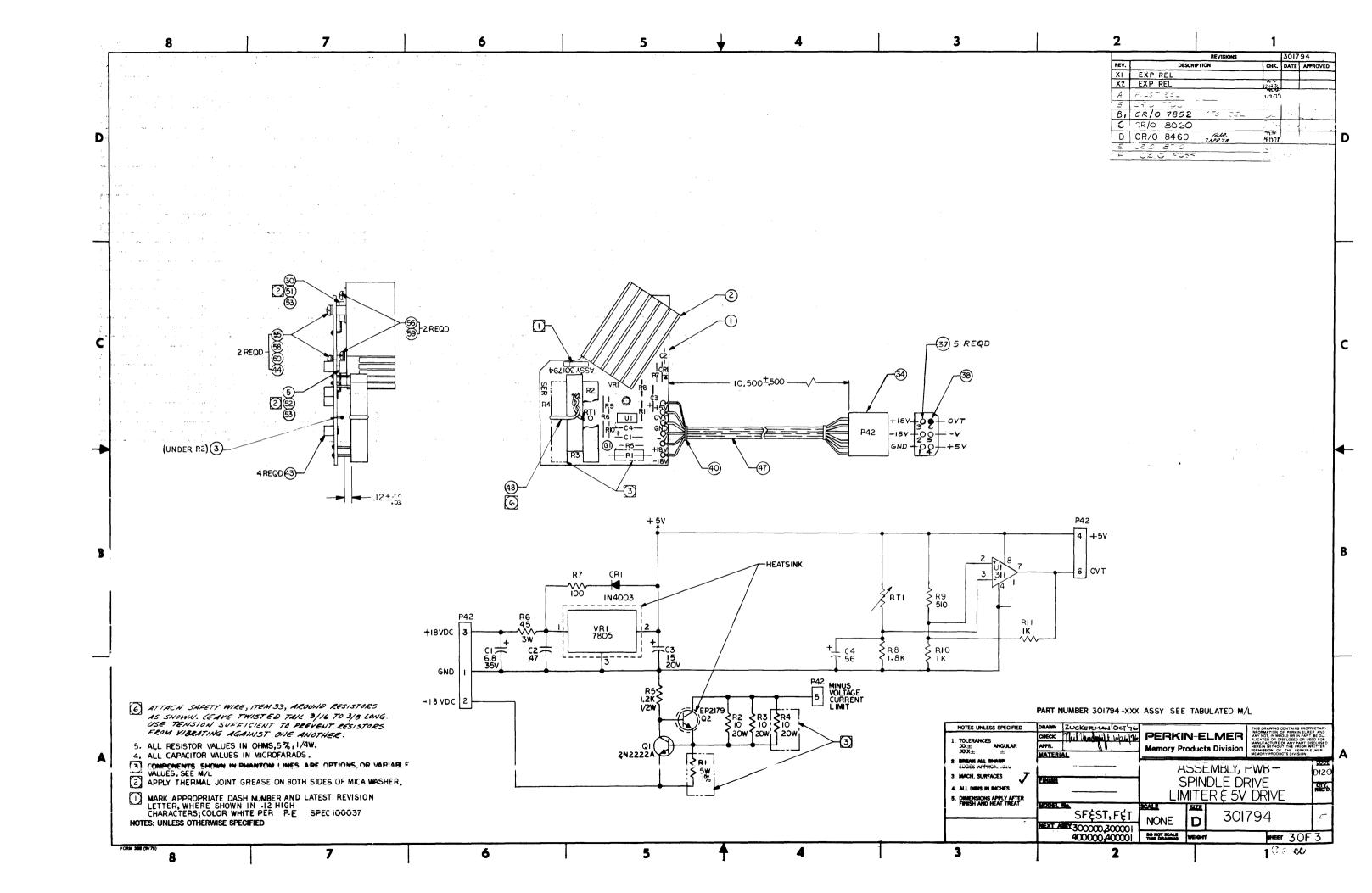
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I	E		ERKIN-ELMER	M	ATERIAL L	IST			PART NUMBER F	REV
١	7	Me	mory Products Division	=		=			301789- 000	E
	000	TI	ASSY. PWB. SPINDLE	SW.	MODEL _		&T & ST		DATE 12-13-76 SHEET 2 OF	5
١	301789-	ITEM NO.	DESCRIPTION		PART NO.	REGO	MIN. REV.	ACT. REV.	REMARKS	
I	3017								NEXT ASSEMBLY/USED ON	
	Т	34			†					
		35	Resistor, 3W±3%	1K	101084-046	3			E35,G2,H31	
		36	Resistor, 5%, W	1 K	101156-102	10			A8,23,B8,51,38,D7,8,E24,	.G]
]							<u> </u>	H14	
	П	37	Resistor, " "	2 K	101156-202	3	L_	<u> </u>	E26,F4,G31	
		38	Resistor, " "	3 K	-302	1	L_	<u> </u>	A43	_
	J	39	Resistor, " "	5.1K	-512	1	L	<u> </u>	A42	_
	-	40	Resistor, " "	10K	-103	1	<u> </u>	L	D9	
		41	Resistor, " "	150K	-154	2	_	_	C54 ,D50	_
		42			ļ	┡				_
		43	Resistor, 5%,%W	1 meg	101156-105	1	L		E2	_
		44				-	<u> </u>			_
		45				├	-			_
		46	Transistor	2N2222A	101052-001	1	—	_	A37	_
		47	Transistor	2N2907A	101053-001	3	├-	_	E34,G8,H25	_
		48	Transistor, PWR	EP2179	151003-001	3		├	D5,E5,G5	_
		49	Transistor,PWR	EP2180	151004-001	3	-		D25,E25,G25	_
		50	 		 	-	<u> </u>		 	
		51 52	C	C D4	100047 010	+.	\vdash		140	_
		53	Connector Connector	6 Pin 5 Pin	100247-013	1			J42 J38	-
		54	Connector	3 Pin	-016	1	-			-
		55	Connector	10 Pin	120905-001	2	-	\vdash	J37 J36,39	_
		56	Connector	10 1111	120903-001	+-	_	-	030,39	-
		57	Standoff-Swage Type		147800-002	6	\vdash	-	.250 dia x .250 LG	-
		58	Standoff- " "		-004	2	_	\vdash	.250 dia x .312 LG	
		59			1			_		
		60	Insulator, Mica		100147-001	6			1	
		61	Grease, Thermal Jo	int	120100-001	A/R				
		62	Pin, Wire Wrap		100360-001	6			A40,44,48,D52,55,58	
		63	1	-						
	j	64	Cement		100303-004	A/R				
		65			1	П				

			USE WITH 301920 A	SSY & 301217	4551	,				D120	
REV.			RKIN ELMER MA	TERIAL L	IST				PART NUMBER	REV.	J. J.
Ľ	Ė	Mes	mory Products Division						301789-004	LC	1
MBER	301789-304		ASSY., PWB, SPINDLE SW.	MODEL_				DATE	1-10-77 SHEET 1	. 0F <u>2</u>	PART NUMBER
D.	783	ITEM NO.	DESCRIPTION	PART NO.	AEQD	REV.	ACT. REV.		REMARKS		Ž S
DATE PART NUMBER	101		USE MATERIAL LIST AND ADD THE FOLLOWING:	301789-000					NEXT ASSEMBLY/USED C	N	PAR
Г	7	_			<u> </u>	<u> </u>		L			
ATE.	1	70	Jumper, Insulated	300648-001	2	_	_	Jum	per A44 to A48		DATE
L	4	<u> </u>				_	-	├-	D55 to D58		ت ا
۵	1	71	Diode 1N5624	107026-001	6		ļ	7 -	E23,F16,17,G33,34		ا ۾
APPROVED	ı	72	Wire, 24 AWG White	101090-924	A/R	_	<u> </u>	D44			APPROVED
APP	1					-	-	├-		-	g A
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	S		RKIN-ELMER nory Products Division	MATERIAL L	ST			PART NUMBER	RE
1	90		ASSY., PWB SPINDLE SW.	MODEL	F&1		0	301789-006	L OF
	301789-006	ITEM NO.	DESCRIPTION	PART NO.	REQD			REMARKS	
	3017		USE MATERIAL LI AND ADD THE FOLLOWING:	ST 301789-000				NEXT ASSEMBLY/USED	ON
٠		70	Jumper, Insulated	300648-001	2		\dashv	Jumper A40 to A44	
_	41	71	Diode 1N562	107025 001	<u> </u>		-+	D52 to D58	
,		72	Diode 1N562 Wire, 24 AWG White	4 107026-001 101090-924				D29,E23,F16,17,G33,	34
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000	T	ASSY. PWB. SPINDLE SW.		SF			DATE 12-13-76 SHEET 3 OF 5		
301789-000	NO.	DESCRIPTION	PART NO.	REQO	REV.	ACT. REV.		REMARKS	
301	Г							NEXT ASSEMBLY/US	ED ON
1	66								
	67 68	Screw, Pan Head	100036-206	8		H	4-4	0 x 3/8 LG	
١	69	Washer, Shoulder - Nylon	100063-013	8					
	\vdash		_	┢╌			_		_
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	\vdash			╁	-				
		Printed Master	301787 -001	0	Ω				
	<u></u>	Schematic Ref.	301790 - 001	0	₿	\sqcup			_
	\vdash	Specification		0	<u> </u>	Ш			
	_	Test Procedure		0	<u> </u>	\sqcup			
	\vdash	Rework Instruction	302027-001	0	-	-			
	\vdash			-	-	\vdash			
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			USE WITH 3019	20 ASSY. & 31	01690	ASSY.		coo€ D120
3							PART NUMBER	REV.
REV.	٥		RKIN-ELMER MA	TERIAL LI	=		301789-003	.2
BER	203	TI.	ASSY., PWB,SPINDLE SW.	_ MODEL _	SF &	ST	DATE 1-10-77 SHEET 1	
PART NUMBER	301789-003	ITEM NO.	DESCRIPTION	PART NO.	REQO	REV. REV.	REMARKS	
PAR	301		USE MATERIAL LIST AND ADD THE FOLLOWING:	301789-000			NEXT ASSEMBLY/USED (N
DATE		70	Jumper, Insulated	300648-001	2		Jumper A44 to A48	
DAT		70	oumper, insuraced	300040-001	-		D55 to D58	
	1	71	Wire, 20 AWG White	101090-920	A/R		D29,E23,F16,17,G33,34	
APPROVED		72	Wire, 24 AWG White	-924	A/R		D44	
APP					-			
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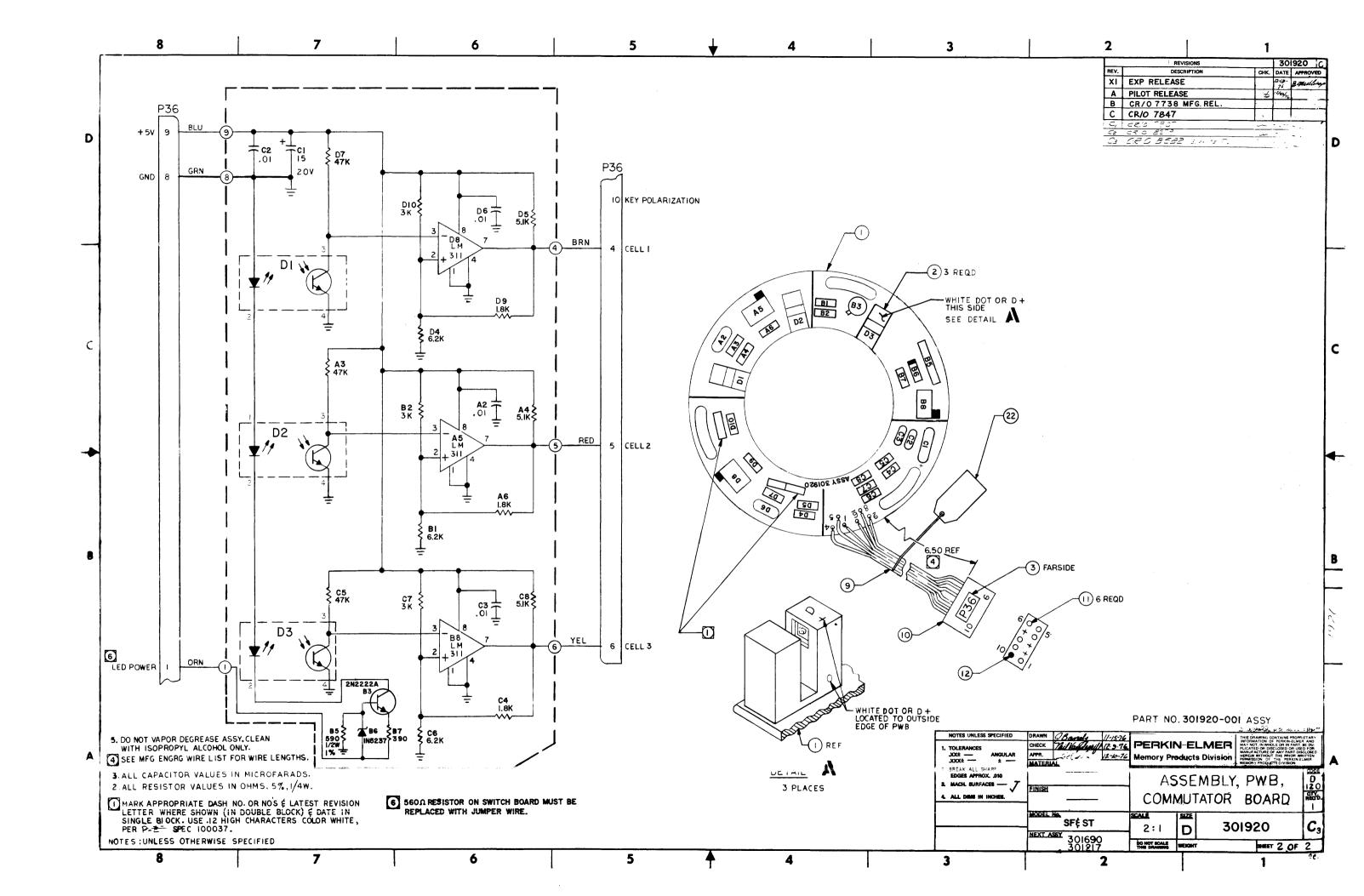
Τ	PI	ERKIN-ELMER	МА	TERIAL L	IST				PART NUMBER	AE
1	Me	mory Products Divisio			===				301794-000	F
1		ASSY, PWB. SPINDL LIMITER & 5V	E DRIVE DRIVE		F&				12-13-76 SHEET	1
EZ										
N	EM O.	DESCRIPTION		PART NO.	RECOD	REV.	REV,	<u>_</u>	REMARKS	
				1				-	NEXT ASSEMBLY/USED	
┸	_				 -	<u> </u>	<u> </u>	300	000,300001,400000	,4000
\perp	1	Board, Processed		301793-001	1	_	<u> </u>	_		
\perp	2	Heat Sink		301693-001	1	-		\vdash		
\vdash	3	Thermistor- Precisi	on	101193-001	1	<u> </u>	<u> </u>	RT1		
L	4				+-	├	-	-		
\vdash	5	IC	7805	125006-005	1		-	VR1		
-	6	IC	311	101022-001	1_	<u> </u>	-	UI		
L	7				 	-		-		
\vdash	8	C	15.6	101000 155	١.		├-	-		
\perp	9	Capacitor, Tant. 201		101002-156	1-		├	C3		
\vdash	10	331	6.8uf	101003-685	1	-		C1		
-	11		.47uf	101086-474	1	-	\vdash	C2		
-	12	" Tant.	56uf	101001-566	1	-	-	L4		
-	13			<u> </u>	╁	-	+	-		
-	14 15	01.4	1/4003	100127-001	1	+-	╁	CR1		
-	-	Diode	1.14003	100127-001	+-	\vdash		CKI		
-	16 17				╁	╁╌	 	╁╌		
-	18			 	+-	\vdash	┢	⇈		
-	19	Doniston 6 19	1.2K	100064-122	1	 	╁	IR5		
-	20	Resistor, 5 , W " 3W,W.W.+5	45	100068-450	1	+-	\vdash	R6		
- ⊢	21	57.W.W.TO	7.7	100000-400	+	\dagger	+	100		
-	22	Resistor,5 ,W	100	101156-101	1	\vdash	t^-	R7		
-	23	11 11 11	510	-511	1	T	1	R9		
-	24	9 0 0	1K	-102	2		T	R10	,11	
-	25	0 9 9	1.8K	-182	1		T	R8		
-	26	" 20W,W.W.+5	10	142008-100	2		1	R2,	R3	
-	27				1			Г		
_ ⊢	28			 	1		Т			
-	29	Transistor	2N2222A	101052-001	1			Q1		
- }-	31)	п	EP2179	151003-001	1		T	Q2		
-	31				Ť	T	T	Ť		
-	32				1	1	1	\top		
	32			 	+	1	1	<u> </u>		

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Ę.	1	P	ERKIN-ELMER "	ATERIAL L	ISŢ			PART NUMBER RE
<u> </u>	_	Me	emory Products Division		==			301794-000
200	000	757	ASSY. PWB. SPINDLE DRIVE LIMITER & 5V DRIVE	MODEL	F&		04	TE 12-13-76 SHEET 2 OF
5	94-(ITEM NO.	DESCRIPTION	PART NO.	REQD	REV. R	CT.	REMARKS
PART NUMBER	301794-000	H			Ħ	T	T	NEXT ASSEMBLY/USED ON
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	┪	34	Connector 6 Pin	100010-020	1		_[942
		35						
i		36						
	Ţ	37	Pin, Female, Snap-Lock	100021-004	5			
	¥.	38	Pin, Male, Snap-Lock	-010	1	$\Box \downarrow$	\dashv	
210010	ì	39			\sqcup	$\perp \perp$	_	
·		40	Strap, Cable (TY-RAP)	100171-001	A/R		\perp	
	_	41			$oldsymbol{oldsymbol{\sqcup}}$		_	
		42			L_	$\sqcup \bot$	_	
		43	Standoff, Swage, Threaded	101136-001	4	oxed	4	
		44	" " Hollow	147005-004	2		_	
		45			_	\perp	ᆚ.	
		46			<u> </u>		4	
		47	Wire, Insulated, Stranded	100053-920	A/R	\perp	\dashv	
		48	" S.S. Safety Lock	164002-001	A/R	\vdash	_	
		49			\vdash	1	_	
		50			<u> </u>	\sqcup	-	
		51	Insulator, Transistor	100147-001	1	$\sqcup \bot$		se with Item 30
		52	Insulator, Transistor-Power	122700-001	1_	\vdash	-	" " " 5
		53	Silicone Grease	120100-001	A/R	\sqcup	4	<u>.</u>
		54			ـ	\sqcup	_	
		55	Screw, Pan Head	100036-308	2	\vdash	$\overline{}$	6-32 x 1/2 LG
		56	Screw, Pan Head	100036-204	2	$\vdash \vdash$	4	-40 x 1/4 LG
		57			↓ _	\vdash	-	
		58	Washer, Split Lock	100042-300	2	\vdash	_	0. 6.
		59	" Shoulder, Nylon	100063-014	2		_	0. 4.
		60	" Flat-Reduced O. D.	100251-300	2	\vdash	- N	0. 6.
		61		_	+	\vdash	-+	
		62			+-		-	
		⊢	Printed Master	301792	Ref	5	_	
		<u></u>	Schematic	301794	Ref	î.	4	Appears on Assy. Dwg.)
		\vdash	Specification		Ref	\vdash	_	
		L_	Test Procedure		Ref			

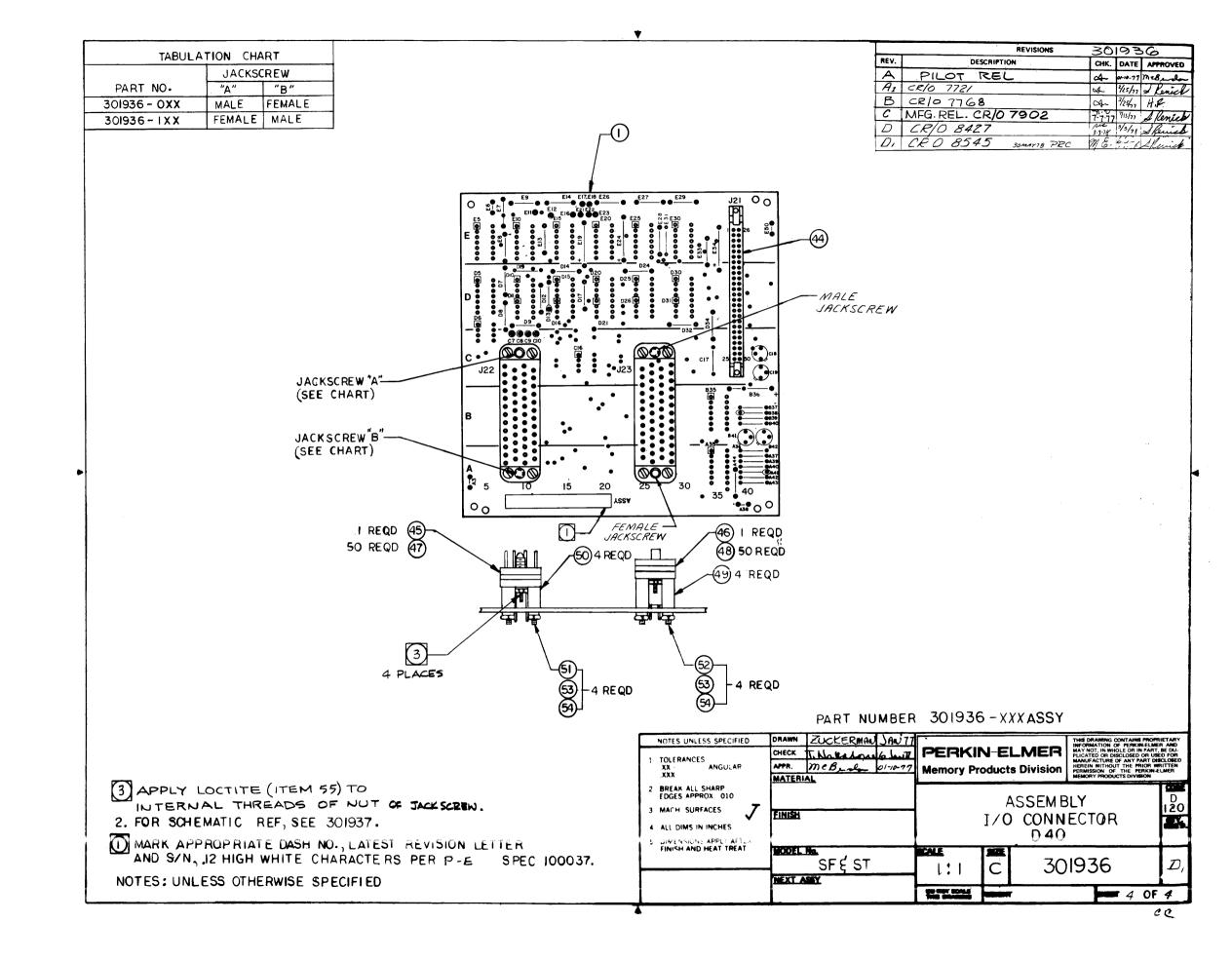
I	В	PE	PIKIN-ELMER	MATERIAL L	ST			PART NUMBER	REY
1	7	Met	nory Products Division		===			301794-001	B
	001		ASSY. PWB SPINDLE DRIVE LIMITER & 5V DRIVE	MODEL	SF,	ST	0	ATE 1-10-77 SHEET 1	_ 0f
	301794-001	NO.	DESCRIPTION	PART NO.	REQO	REV.	ACT. REV.	REMARKS	
١	301		USE MATERIAL LI	ST 301794-000			Ţ	NEXT ASSEMBLY/USED	ON
l			AND ADD THE FOLLOWING:	301794-000	_	D	_	400000 & 400001	
	1	Щ			_	\sqcup	4		
	Н	50	Resistor, 5W W.W. <u>+</u> 1% .15	142000-053	1	\vdash	-	R1	
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>	B	PE	PKIN-ELMIER HA	TERIAL LI	ST				PART NUMBER	REV.
٤	Ø	Mer	nory Products Division		==				301794-002	7:
ER	002	ITEM NO.	ASSY. PWB. SPINDLE DRIVE LIMITER & 5V DRIVE	MODEL _	SF,	, st		DATE	1-10-77 меет	1 of _1
PART NUMBER	794-	ITEM NO.	DESCRIPTION	PART NO.	REGO	REV.	ACT. REV.		REMARKS	
¥	301		ues witten i i i i i	201704 000	Π				NEXT ASSEMBLY/USED	ON
[]			USE MATERIAL LIST AND ADD THE FOLLOWING:	301794-000					400000 & 400001	
H	7	П			Т	П				
<u>.</u>		50	Resistor, 5W W.W. ±1% .1	142000-052	1			R1		
DATE	1/	51	Resistor,20W W.W. ±5% 10	142008-100	1	П		R4		
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Men	nory Products Division		=				301920-001	
	ASSY., COMMUTATOR PWB.	MODEL .		ST			12-9-76 SHEET 1	OF
NO.	DESCRIPTION	PART NO.	RECOD	REV.	ACT. REV.		REMARKS	
							NEXT ASSEMBLY/USED	ON
						30	1690, 301217	
1	Board, Processed	301919-001	1	۵				
2	Switch, Optical Modified	301272-001	3			D1,	02,D3	
3	Marker, Conn P	202340-036	1			P36		
4	I.C. LM311	101022-001	3			A5,	38,D8	
5	Transistor 2N2222A	101052-001	1			В3		
6	Diode 1N5237	101058-012	1			В6		
7	Capacitor, Disc, 100V .01	102662-001	4			A2,	C2,63,D6	
8	Capacitor, Tant. 20V 15 uf	101002-156	1			C1		
9	Cable, Flat 6 Cond.	100403-001	A/R			П		
10	Connector, Hsg.	105016-001	1			P36		
11	Pin, Female	106004-001	6			1		
12	Key, Polarization	101171-001	1		L			
13						<u> </u>		
	Resistor, 5%, W 1.8K	101156-182	3			A6,	C4, D)	
15	Resistor, " " 3K	-302	3			B2,	C7,D10	
	Resistor, " " 5.1K	-512	3			А4,	C8,D5	
	Resistor, " " 6.2K	-622	3			В1,	C6, D4	
18	Resistor, " " 47K	-473	3			АЗ,	C5, D7	
19	Resistor, 1%,뉗 590	100172-267	1			B5		
20	Resistor, 5%, W 390	101156-391	1			B7		
21								
22	Tag, Field Notice	302080-001	I					
23								
24	Printed Master	301918-001	0					
25	Schematic	301920-001	0		<u> </u>	(App	ears on Assy.)	
26			Ш		<u>L</u>	_		
27	Specification	301921-001	0			<u></u>		
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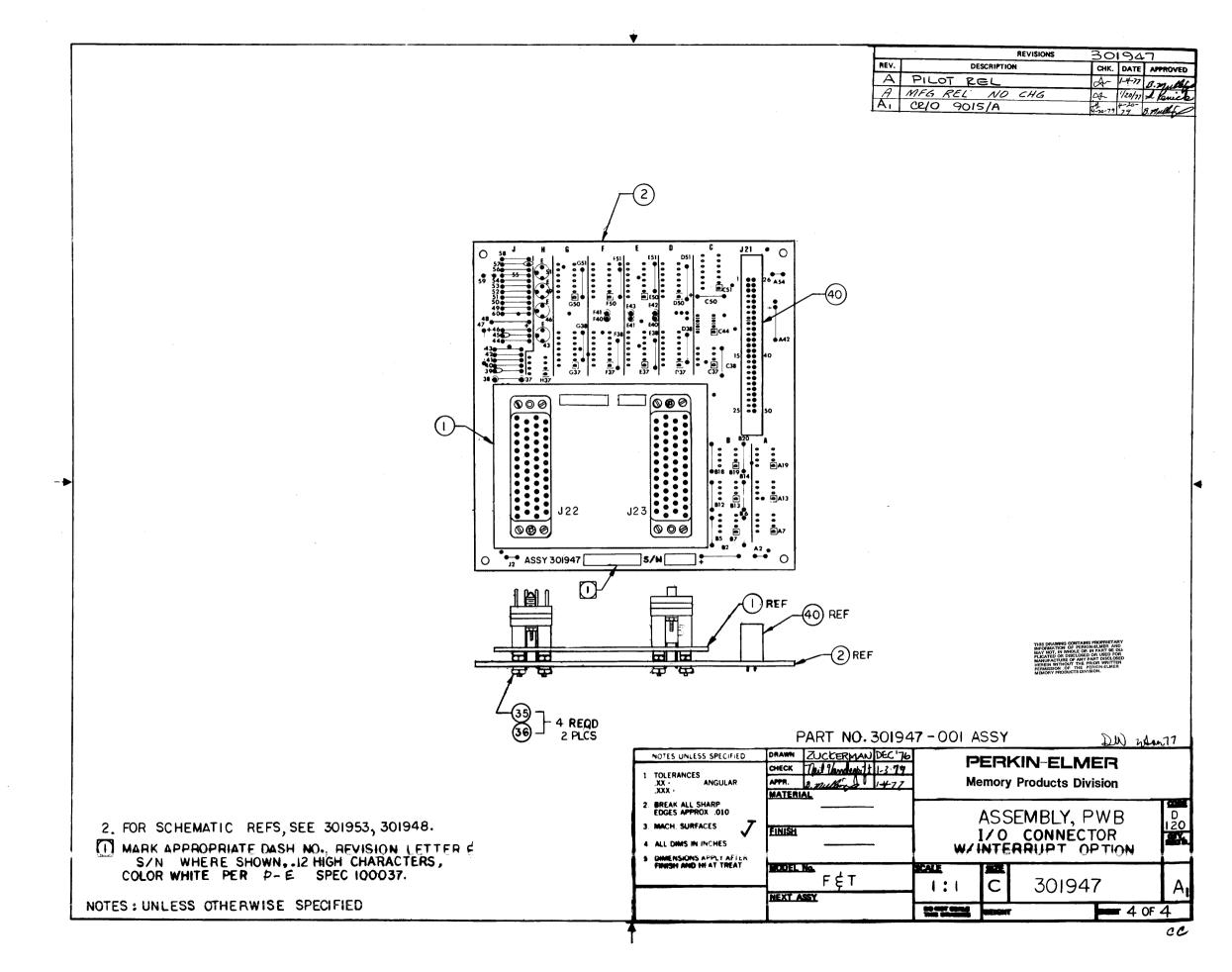


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l	Men	mory Products Division	=		=			301936-	000 L	
	TIT	TLE ASSY. PWB I/O D40		MODEL _	SF	& ST		DATE 11-17-76 SHEET 1 OF 4		
l	TEM NO.	DESCRIPTION		PART NO.	REQD	MIN. REV.	ACT. REV,	REMAR	KS	
F								NEXT ASSEMB	LY/USED ON	
l	_			224225 224			_			
ŀ	1	Board, Processed		301935-001	1	Ŀ	\vdash			
ŀ	2		7100	100000 001	١.	_	\vdash	F10		
ŀ	3	I.C.	7402	100329-001	1	_	H	E10		
ŀ	5	I.C.	7404 7403	100330-001	1	-	\vdash	E15 E5		
ŀ	6	I.C.	75452	101007-001	12	 	\vdash	C16,D6,10,11,1	5 16 20 21 2	
ŀ	О	1.0.	13432	101031-001	1	\vdash	<u> </u>	D26,30,31	V91U9CU9CL9C	
ł	7	I.C.	7414	123001-001	1	_		D5		
ł	8	I.C. 8T380 or	r 8836	100347-001	5	_	\vdash	A35,B35,E20,25	-30	
ł	9	1.0.		1000 11 100	<u> </u>					
t	10			<u> </u>						
ŀ	11									
Ì	12	Capacitor,Cer.20%,100	/,.01uf	102662-001	11			A44,D9,14,24,3	2,E7,9,14,26	
Ì								E27,29		
I	13						I			
I	14									
I	15	Capacitor,Cer.20%,50V	,.luf	101087-104	4			A3,38,E6,50		
I	16						<u> </u>			
ı	17	Capacitor, Tant, 6V, 56u	f	101001-566	4	_		B36,E19,24,34		
I	18				$oldsymbol{oldsymbol{\sqcup}}$	<u> </u>	<u> </u>			
	19				┺	↓_	├-			
	20		1N4003	100127-001	1	├	├-	D13		
1	21		1N5228B	101058-003	1	⊢	-	A41		
	22	Diode	1N5317	101034-001	1	\vdash	╁─	B38		
	23				+-	+	╁╾			
	24	Desister EW LW	E 6	101156 560	1	\vdash	\vdash	A40		
	25 26	Resistor, 5%, W	56 75	101156-560 -750	1	 	\vdash	E33		
	26 27	11 11 11	100	-101	5	\vdash	t^-	A36,37,B39,40	C17	
	28	n 11 11	160	-161	1	\vdash	T	A42	1017	
	29	0 0 0	200	-201	1	┪	\vdash	A43		
	30	и и и	390	-391	 	t^{-}	†	A 39		
	31	Resistor, 5%, W	510	101156-511	1	+	1	D17		

	D,		RKIN-ELMER	м.	ATERIAL L	SŢ			PART NUMBER RI
_	7	Mer	nory Products Division	_		_			301936-000 Z
	00	TIT	LE ASSY. PWB I/O D4	0	MODEL .	SF &	ST	_ '	DATE 11-17-76 SHEET 2 OF
NO MOE	36-0	ITEM NO.	DESCRIPTION		PART NO.	REGO	MIN. REV.	ACT. REV,	REMARKS
	301936-000								NEXT ASSEMBLY/USED ON
	┰	22	Resistor, 5%, W	1K	101156-102	2	\vdash	-	E13,28
,	П	33	11 11 11	2K	-202	2	\vdash	_	D34,E8
		34		10K	-103	3	 	_	D7,8,12
-	┨	_	Resistor, 5%, W	150K	101156-154	1	\vdash		B37
		36	Resistor, " "	270	101156-271	2	П		D19,E31
	1	37	RC513to1;	270	101130-271	-			
	1	38	Pin, Wire Wrap		100360-003	12			C7,8,9,10,E11,12,16,17,1
-	_	\vdash				au			E21,22,23
		39			—				
		40					П		
		41	Transistor	2N2222A	101052-001	4			B41,42,C18,19
		42				T			
		43				1	П		
		44	Connector, Male	50 Pin	101040-001	1	П		J21
		45	11 11	и п	105010-003	1			J22
		46	" Female	0 0	-004	1	П		J23
		47	Contact, Pin - Male		106002-002	50			
		48	" " Femal	e	-001	50			
		49	Spacer, Fibre		100391-014	4	i		
		50	Spacer, "		-002	4			
		51	Screw, Fillister Hea	ıd	145003-212	4			4-40 x 3/4
		52	Screw, "		-214	4			4-40 x 7/8
		53	Washer, LK, Int. Too	th	100059-200	8			No. 4
		54	Nut, Hex		100043-200	8			No. 4
		55	Cement, Loctite		100303-004	A/R			
			Printed Master		301934 - 001	0			
			Schematic		301937 -001	0			
			Test Spec.		301938 -001	0			
			Rework Instructions		302116-001	0			
		Г							

Û		LINE RECEIVERS	TERIAL L				PART N	UMBER	REV.
_	ł	mory Products Division		=	CT		301936-0		<u> </u>
-001	1.	ASSY.,PWB. I/O D40	T	REGO			DATE 12/21/76		OF
301936-001	NO.	DESCRIPTION	PART NO.	HEOLO	REV.	REV.	NEXT ASSEM		ON
30		USE MATERIAL LIST AND ADD THE FOLLOWING:	301936-000	_					
	50	Jumper, Insulated	300648-001	3	_		Jumper J	1 E23	to E22
1									to E 21
ı	<u> </u>		ļ	<u> </u>	-	-	J	3 E11	to E 12
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		CA	RTRIDGE ONLY LINE	SELECT INVERT	ED ED WI	TH W	RITE	CHECK				D120
REV.	C		RKIN-ELMER M	TERIAL L	ST				PAR	TNUMB	ER	Revo
Ľ		Mer	nory Products Division		Ë			30	0193	5-002		0
IBER	02	L	ASSY.,PWB. I/O - D40	MODEL _	SF	& ST		DATE 12/2	21/76	5_ SHI	ET _1	_ of _2
PART NUMBER	96-0	ITEM NO.	DESCRIPTION	PART NO.	REGO	MIN. REV.	ACT. REV.		R	EMARKS		
PAR	301936-002		USE MATERIAL LIST AND ADD THE FOLLOWING:	301936-000				NE:	XT AS	SEMBLY	/USED	ON
	s	L	Sec. 1		_	_		ļ				
DATE	100	50	Jumper, Insulated	300648-001	4	-	<u> </u>	Jumper		E23	to	
	7 1	┝			-	\vdash	\vdash		J3	E17 E11	to to	E21
₽.	MCBL da	-		 	┢	⊢	\vdash		J4		to	C10
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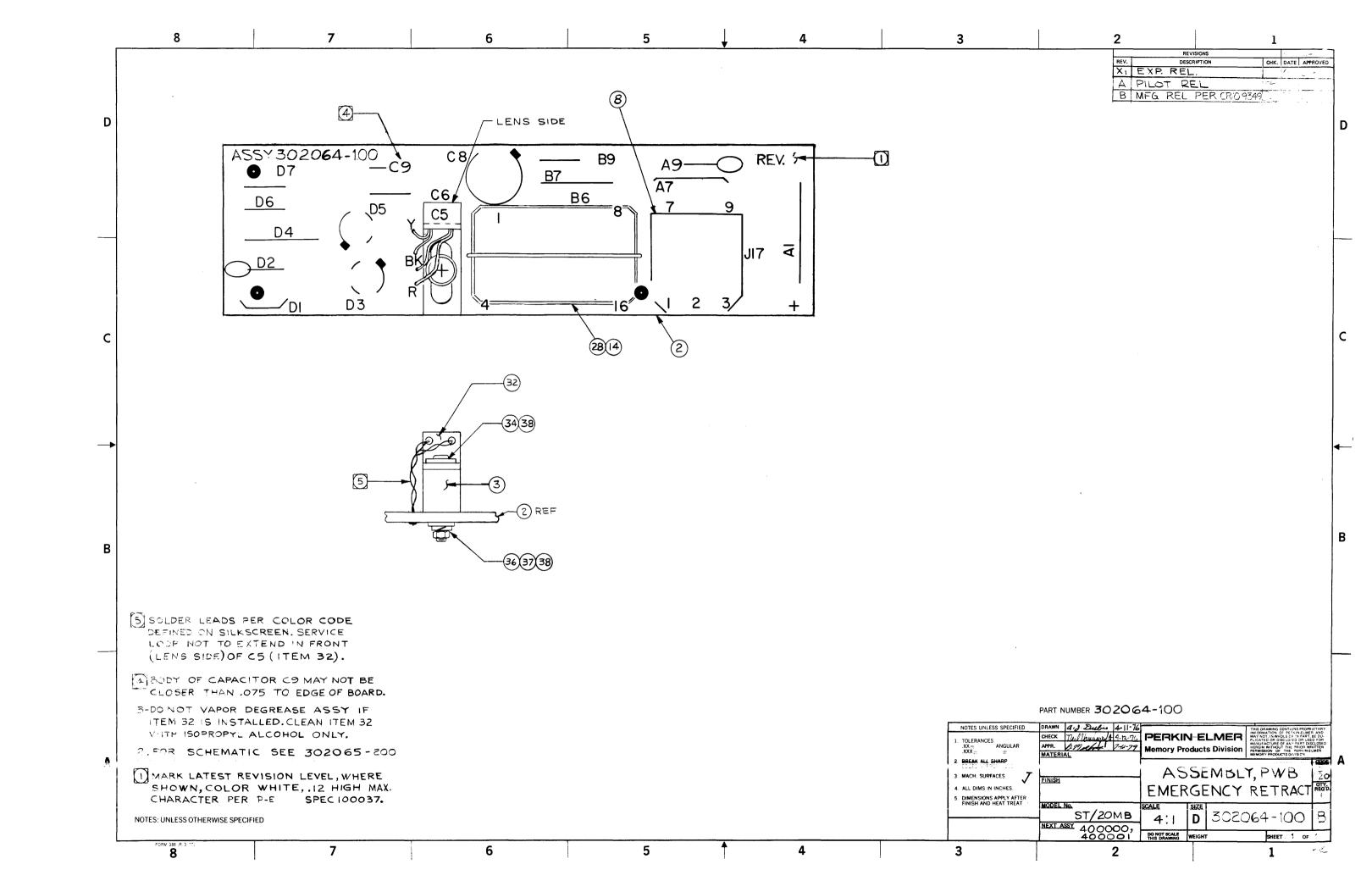


7	PE	M A mory Products Division	TERIAL L	IST			PART NUMBER REV.
		ASSY., I/O CONNECTOR W/INTERRUPT OPTION	MODEL _	F,	′T		301947-000 A
	ITEM NO.	DESCRIPTION	PART NO.	RECO	REV	ACT. REV.	REMARKS
				Ī			NEXT ASSEMBLY/USED ON
4	1	Piggy Back I/O Connector -Assy	301952-001	<u> </u>	<u> </u>	╁	
	2	Board, Process	301952-001	1	A	+	
1	3	564.4, 11.6653	301340-001	1	<u> </u>	1	
	4	I.C. 75452	101031-001	9	\vdash	\vdash	A7,13,19,B7,13,19,C37,44,H
	5	I.C. 7402	100329-001	1	\vdash	7-7	D37
	6	I.C. 7408	100332-001	1		+-+	D50
	7	I.C. 7414	123001-001	1			G37
	8	I.C. 8T380 or DM8836	100347-001	5			E37,50,F37,50,G50
1	9						
1	10					\Box	
	11	Transistor 2N2222A	101052-001	4			H43,46,49,51
- 1	12			<u> </u>			<u> </u>
- 1	13			<u> </u>			
- 1	14	Diode, Rect. 1N4003	100127-001	1	_	$\downarrow \downarrow$	J39
- 1	15	Diode, 1N5317	101034-001	1		\sqcup	J45
-	16	Diode, Zener 3.9V 1N5228B	101058-003	1		\vdash	J57
	17			├	-	\longrightarrow	
	18 19	Conneitor Con 1004 01 c	100550 000	 	<u> </u>	\vdash	
1	19	Capacitor, Cer. 100V .01 uf	102662-001	14	├		B5,6,12,14,18,20,C38,D38,
١	20			┼—	-	-	E38,51,G38,51,F38,51
	21	Capacitor, Cer. 50V .luf	101087-104	4	-	\vdash	A2,54,J2,59
ŀ	22	Capacitor, Tant. 35V 6.8uf	101007-104	3	-	-	A42,D51,J47
	23	Capacitor, Tant. 6V 56uf	101003-665	2	-	T = T	B2,J48
	24	3, 300	101001 300	-	_	\vdash	DC,040
	25			_	_		
1	26	Resistor, 5%, W 56	101156-560	1		1 1	J56
1	27	" " 75	-750	1		-	C50
I	28	" " 100	-101	6		1 1	J46,49,50,51,55,60
Į	29	" " " 110	-111	4		\mathbf{T}	J40,41,42,43
	30	" 160	-161	1			J53
[31	" " 200	-201	1			J52

k	_	PE	RKIN-ELMER	ATERIAL L	IST				PART NUMBER	REY
ľ	Ī	Mor	nory Products Division	ATENTAL L					301947-000	A
	000	TIT	ASSY., I/O CONNECTOR W/INTERRUPT OPTION	MODEL _	F/1			DATE	11-16-76 sнеет	2 of 4
TOWN TOWN	301947-000	NO.	DESCRIPTION	PART NO.	RECOD	MIN. REV.	ACT. REV,		REMARKS	
	3019			T		Π			NEXT ASSEMBLY/USED	ON
1										
10	П	32	Resistor, 5%, W 390	101156-391	1			J54		
8	П	33	" " 510	-511	1			J58		
2.00.01	П	34	" " " 150K	-154	1			J44		
	11	35	Washer,Lk. Int. Tooth	100059-200	8					
Ž,	Н	36	Nut, Hex.	100043-200	8					
Ė	Н	37								
~* ~\`	Н	38	Pin, Wire Wrap .025 Sq.	100360-001	8			E40	,41,42,43,F40,41	J37,
Ė	1	39	Jumper, Insulated	300648-001	1			Jump	er J37 to J38	
		40	Connector, Male 50 Pin	101040-001	1			J21		
			Printed Master	301945-001	Ref	Α				
			Schematic	301948-001	Ref	Α				
			Specification	301949-001	Ref					
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H	H	ASSY I/O CONNECTOR		_			301947-001
10 00 01	TI	TLE W/INTERRUPT OPTION	MODEL	F&	Τ	_	DATE 12-8-76 SHEET
201947-001	ITEM NO.	DESCRIPTION	PART NO.	REGO	REV.	ACT. REV,	REMARKS
		USE MATERIAL LIST AND ADD THE FOLLOWING:	301947-000		A		NEXT ASSEMBLY/USED
DATE /2-09-76	39	Jumper, Insulated	300648-001	2			Jumper E42 to E41
	\vdash			╀╌	-	├	F41 to E43
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REV.	7	Pi	FIKIN-ELMER	MA	TERIAL L	I S T				PART NUMBER	REV.
Z		Me	mory Products Division	_		=				301947-002	A
PART NUMBER	301947-002		ASSY., I/O CONNECTO W/INTERRUPT OPTION	OR	MODEL _				DATE	12-8-76 SHEET	1 of1
Ş	947	NO.	DESCRIPTION		PART NO.	RECO	REV.	ACT. REV.		REMARKS	
			USE MATERIA AND ADD THE FOLLOWING:	AL LIST	301947-000		A			NEXT ASSEMBLY/USE	D ON
DATE	16	20	lumana Tanadatat		300648-001	<u> </u>		_	ļ.,	. 540 to 541	
DAT	10-10	39	Jumper, Insulated		300648-001	2			Jum	F40 to E43	
APPROVED		_							_		
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.				ELMER			ASSEMBLY PART NUMBER	D120 REV.
HEV.	8			ducts Division	MATERIAL LIST	ı	302064-001	В
ASSEMBLY PART NUMBER		TITU	FM	SY. PWB. ERGENCY RETR	ST ST 20MB		4/11/77 SHEET 1	
ART	100		REQD	PART NO.	DESCRIPTION	UATE	REMARKS	.UF
4	302064-001	1						
EMB	3020	2	1	302063-001	Processed Board			
ASS	"	3	1	302067-001	Support, Transducer			
1.	1	4						
5.5	12	5	1	100243-511	Capacitor, Mica 510pf	C9		
	9	6	1	101003-685	Capacitor, Tant 35V,10% 6.8uf	A1		
		7						
		8	1	100247-004	Conn, Header	J17		
		9						
		10.						
		11	_	100127-001		A 9		
		12	1	101058-003	Diode, Zener 3.9V 1N5228B	D2		
		13						
		14	1	100240-001	Relay, 4PDT,12VDC.	B6		
		15		100000 170	Resistor, 5%,3W. 47	A7		
		16	1	100068-470 -101		B7		
	1	17	1			D4		_
		18	1	100068- 221	Resistor, " " 220	04		
		19 20	\vdash					
		21	1	101156-151	Resistor, Carbon 5%,%W. 150	D1		
		22	1	-511	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	C6		
		23	1	-472	11010001	D7		
		24	1	-103		B9.		
		25	1	101156-302		D6		
		26						
		27	1	100223-001	Insulator, Transistor, TO-5	For C8		
		28	1	100241-001		SOCKET	- B6	
		29						
		30	1	100162-001	Thyristor, SCR	C8		
		31						
		32	1	160001-001	Transducer, Reflective	C5		
		33	2	101053-001	Transistor, PNP 2N2907A	D3,5		

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		_					ASSEMBLY PART MUMBER	REV.
REV.	-			ELMER ducts Division	MATERIAL LIST		302064-001	B
_	-		OTY PTO	OUCIS DIVISION	WAI ENIAL LIST		302004-501	ئلد
ASSEMBLY PART NUMBER	_	TITLE	53	SSY. PWB. MERGENCY RET	CACT ST 20MB.	DAT	E4/11/77	2 _{o≠} _3
A.	302064-001	ITEM	REQD	PART NO.	DESCRIPTION		REMARKS	
ול וול	964	34	1	100036-210	Screw, P.H.	4-40	x 5/8	
38EM	305	35						
₹		36	1	100042-200	Washer, Split Lock	No. 4		
		37	1	100043-200	Nut, Hex	No. 4		
		38.	2	100251-200	Washer flat, reduce O.D.	No. 4		
		39						
		40		302062-001	Printed Master			
		41		302065- 200	Schematic	L		
		42	0	302066-001	Specification			
		43	0	302064-100	Assy. PWB Emergency Retract (DWG)			
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FORM 209 (R 3/7)

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SECTION 3

MASTER SPARE PARTS LIST

3.1 RECOMMENDATIONS

The recommended spare parts for the Perkin-Elmer SF and ST Disk Drives are listed in the following Master Spare Parts list.

3.2 COMPONENT VARIANCE

For resistors, capacitors, small hardware, and other items not included in the list, equivalents in type, value, size, tolerance, and quality may be substituted.

3.3 INTEGRATED CIRCUITS

For integrated circuits where the manufacturer is not specifically listed, any manufacturer's device of the specific type may be used.

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		TER SPARES L				PART NUMBER	REV.			STER SPARES L				PART NUMBER	REV.
PE Me	ERKIN-ELMER MA mory Products Division	TERIAL LI	<u>s T</u>						ERKIN-ELMER M	ATERIAL L	<u> </u>				
TIT	TLESUPER SERIES	_ MODEL _	SF 8	& ST		DATE SHEET	L of	TI	TLE SUPER SERIES	MODEL _	SF	& ST		DATE SHEET _2	OF
ITEM NO.	DESCRIPTION			MIN. REV.	ACT.	REMARKS		ITEM NO.	DESCRIPTION	PART NO.	REQU	MIN.	ACT. REV.	REMARKS	
₩O,	DESCRIPTION	PARTINO.		REV.	HEV.	NEXT ASSEMBLY/USED	ON	NO.		<u> </u>	_			NEXT ASSEMBLY/USED OF	N
	GUD ACCEMBLICS							1	MISCELLANEOUS ITEMS:			.			
1	SUB-ASSEMBLIES: Assy. Power Supply	301361-001	1	 	_	F&T		1	Magnetic Recording Head	300132-001	2			100TPI, 1500RPM, 2200BPI	upper
2	Assy. Positioner	301344-001	1			2200 BPI				-002	2			100TPI, 1500RPM, 2200BPI	lower
-	Assy. Positioner	″ -002	1		_	4400 BPI				-003	2			100TPI, 2400RPM, 2200BPI	lupper
3	Assy. Spindle Motor	301690-007	1			100 or 200 TPI, 1500 RPI	м			-004	2			100TPI, 2400RPM, 2200BPI	llower
Ť	Assy. Spindle Motor	" -009	1		_	100 or 200 TPI, 2400 RPI				300397-001	2			200TPI, 1500RPM, 2200BPI	l,upper
	Assy. Spindle Motor	″ -006	1	T	_	100 TPI, 1500 RPM				-002	2			200TPI,1500RPM, 2200BPI	lower
	Assy. Spindle Motor	″ -008	1			100 TPI, 2400 RPM				301489-003	2	L		200TPI, 2400RPM, 2200BP	lupper
4	Assy. OCP	301350-001	1							-004	2	_		200TPI, 2400RPM, 2200BP	
5	Assy. Transducer, Fixed	301357-001	1					<u> </u>		301489-005	2	┞		200TPI, 2400RPM, 4400BP	
6	Assy. Filter	301742-002	1		<u>L</u> _			<u> </u>		±006	2	┞	↓_	200TPI, 2400RPM, 4400BP	I lower
7	Assy. Thermistor, Base	301362-001	1		<u> </u>	200 TPI Only		_	Air Filter	300387-002	1	┼-	₩-	Pre-filter on 301742-002	
8	Assy. Thermistor, Air	301587-001	1	↓	<u> </u>	200 TPI Only		3	Shipping Restraint	300790	1	╁	+-	Positioner Carriage	
9	Assy. Sector Transducer, Removable	300606-001	1	₩	└	Series T Only		_	Key, Polarization	101127	10	+-	+-	Used on 301636	
10	Assy. Door Latch Solenoid	300388-001	1	-	├ —	Series T	—-	5	'O' Ring	100410-001	1	-	+-	2400RPM, Black	
11	Assy. Door Latch Solenoid	300433-001	1	 	├ ─	Series F Only		<u> </u>		-004	1	+-	┼	1500RPM, White	
12	Assy, Brush Motor	300323-001	1	+-	├-	Disc Cleaning .		1.6	Brush, Disc Cleaning	101095-001	1	+	+	Upper Lower	
<u> </u>			-	+-	├			 	Death County	101701-001	3	-	+	Used on 301690	
├			┝	╀-	├			_	Brush, Ground Clip, Hitch Pin	101121	1	t	+	Used with 101095	
 			┼	+	+-				Sector Transducer	300679-001	1	+-	+-	Series F Only	
-			-	+	┼─			۲	Sector Transducer	300075 001	┿	t^{-}	+	2011021 2111)	
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1 6						PART NUMBER	BEV	Г						PART NUMBER	REV.
	PERKIN-ELMER MA	TERIAL L	IST			PART NUMBER	REV.		PERKIN-ELMER M	ATERIAL L				PART NUMBER	REV.
	PERKIN-ELMER M. M. Memory Products Division	TERIAL L	IST			PART NUMBER	REV,					,	_	PART NUMBER	REV.
•		TERIAL L		* & ST		PART NUMBER DATE SHEET	1	'	PERKIN-ELMER M		1 5 T	& ST		PART NUMBER DATE SHEET 5	
Ti	Memory Products Division SUPER SERIES	MODEL _	SF	* & ST		DATE SHEET	1	, T	PERKIN-ELMER MANAGEMENT PRODUCTS DIVISION STATE SUPER SERIES	ATERIAL L	SF			DATESHEET 5	
•	Memory Products Division SUPER SERIES		SF			DATESHEET	4_ OF	'	PERKIN-ELMER MARKET PROJECT OF STATES	ATERIAL L	SF	& ST		DATE SHEET 5	OF
Ti	Memory Products Division JULE SUPER SERIES DESCRIPTION	MODEL _	SF	* & ST		DATE SHEET	4_ OF	, T	PERKIN-ELMER Jemory Products Division SUPER SERIES DESCRIPTION	ATERIAL L	SF			DATESHEET 5	OF
TI ITEM NO.	DESCRIPTION PRINTED WIRING BOARDS:	MODEL	SF	* & ST		DATE SHEET S	4_ OF	T ITEM	PERKIN-ELMER Jemory Products Division SUPER SERIES DESCRIPTION PRINTED WIRING BOARDS:	MODEL .	SF			DATESHEET 5 REMARKS NEXT ASSEMBLY/USED 0	OF
TI ITEM NO.	Memory Products Division JULE SUPER SERIES DESCRIPTION	MODEL _ PART NO	SF REQ	ST & ST		DATE SHEET SHEET REMARKS NEXT ASSEMBLY/USED 200 TPI, 406 Tracks	4_ OF	T ITEM	PERKIN-ELMER Jemory Products Division SUPER SERIES DESCRIPTION	ATERIAL L	SF			DATE SHEET 5 REMARKS NEXT ASSEMBLY/USED 0 Top 2400RPM, 5us Index w	OF
TI ITEM NO.	DESCRIPTION PRINTED WIRING BOARDS:	PART NO. 301687-001 -002	SF REGI	MIN. REV.		DATE SHEET S	4_ OF	T ITEM	PERKIN-ELMER Jemory Products Division SUPER SERIES DESCRIPTION PRINTED WIRING BOARDS:	MODEL MODEL PART NO.	SF REQU			DATE SHEET 5 REMARKS NEXT ASSEMBLY/USED 0 Top 2400RPM, 5us Index v 48 or 50 Sector Cart.	OF
TI ITEM NO.	DESCRIPTION PRINTED WIRING BOARDS:	PART NO. 301687-001 -002 -003	SF REOF	ST & ST		REMARKS NEXT ASSEMBLY/USED 200 TPI, 406 Tracks 200 TPI, 408 Tracks 100 TPI, 203 Tracks	4_ OF	T ITEM	PERKIN-ELMER Jemory Products Division SUPER SERIES DESCRIPTION PRINTED WIRING BOARDS:	MODEL MODEL PART NO 301632-014	SF REO	MIN		REMARKS REXT ASSEMBLY/USED O Top 2400RPM, 5us Index v 48 or 50 Sector Cart. Top 1500RPM, 5us Index	OF
TI ITEM NO.	DESCRIPTION PRINTED WIRING BOARDS:	PART NO. 301687-001 -002	SF REGI	ST & ST		DATE SHEET S	4_ OF	T ITEM	PERKIN-ELMER Jemory Products Division SUPER SERIES DESCRIPTION PRINTED WIRING BOARDS:	MODEL PART NO	SF REQU	MIN		DATE SHEET 5 REMARKS NEXT ASSEMBLY/USED 0 Top 2400RPM, 5us Index v 48 or 50 Sector Cart.	OF
TI ITEM NO.	DESCRIPTION PRINTED WIRING BOARDS:	PART NO. 301687-001 -002 -003	SF REOF	ST & ST		REMARKS NEXT ASSEMBLY/USED 200 TPI, 406 Tracks 200 TPI, 408 Tracks 100 TPI, 203 Tracks	4_ OF	T ITEM	PERKIN-ELMER Jemory Products Division SUPER SERIES DESCRIPTION PRINTED WIRING BOARDS:	MODEL MODEL PART NO 301632-014015016017	SF REQU	MINREY		REMARKS NEXT ASSEMBLY/USED O Top 2400RPM, 5us Index v 48 or 50 Sector Cart. Top 1500RPM, 5us Index Top 1500RPM, 5us Index	OF
T. ITEM NO.	DESCRIPTION PRINTED WIRING BOARDS: Assy. Servo Logic PWB		SF REOF	MIN. REV.		DATE SHEET S	4_ 0F	T ITEM	PERKIN-ELMER Jemory Products Division SUPER SERIES DESCRIPTION PRINTED WIRING BOARDS:	MODEL PART NO	SF REQU	MINREY		REMARKS REXT ASSEMBLY/USED O Top 2400RPM, 5us Index v 48 or 50 Sector Cart. Top 1500RPM, 5us Index Top 1500RPM, 5us Index Top 1500RPM, 10us Index	OF
T. ITEM NO.	DESCRIPTION PRINTED WIRING BOARDS:	PART NO. 301687-001 -002 -003	SFREQUE	o MIN. REV.		REMARKS NEXT ASSEMBLY/USED 200 TPI, 406 Tracks 200 TPI, 408 Tracks 100 TPI, 203 Tracks	4_ 0F	T ITEM	PERKIN-ELMER Jemory Products Division SUPER SERIES DESCRIPTION PRINTED WIRING BOARDS:	MODEL MODEL PART NO 301632-014015016017	SF REQU	MINREY		REMARKS REXT ASSEMBLY/USED O Top 2400RPM, 5us Index v 48 or 50 Sector Cart. Top 1500RPM, 5us Index Top 1500RPM, 5us Index Top 1500RPM, 10us Index	OF
T. ITEM NO.	DESCRIPTION PRINTED WIRING BOARDS: Assy. Servo Logic PWB	MODEL _ PART NO. 301687-001 -002 -003 -004 -301206-001	SF REO(1) 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	D MIN. REV.		DATE SHEET S	4 of	T ITEM	PERKIN-ELMER Jemory Products Division SUPER SERIES DESCRIPTION PRINTED WIRING BOARDS:	MODEL MODEL PART NO 301632-014015016017	SF REQU	MINREY		REMARKS REXT ASSEMBLY/USED O Top 2400RPM, 5us Index v 48 or 50 Sector Cart. Top 1500RPM, 5us Index Top 1500RPM, 5us Index Top 1500RPM, 10us Index	OF
T. ITEM NO.	DESCRIPTION PRINTED WIRING BOARDS: Assy. Servo Logic PWB	MODEL _ PART NO. 301687-001 -002 -003 -004 -004 -004 -004	SF REQUI	D MIN. REV.		DATE SHEET S	4 of	T ITEM	PERKIN-ELMER femory Products Division TLE SUPER SERIES DESCRIPTION PRINTED WIRING BOARDS: Assy. Disc Control PWB(concluded)	MODEL MODEL PART NO 301632-014015016017	SF REQU	D MINIMA		REMARKS REXT ASSEMBLY/USED O Top 2400RPM, 5us Index v 48 or 50 Sector Cart. Top 1500RPM, 5us Index Top 1500RPM, 5us Index Top 1500RPM, 10us Index	OF
T. ITEM NO.	DESCRIPTION PRINTED WIRING BOARDS: Assy. Servo Logic PWB	MODEL _ PART NO. 301687-001 -002 -003 -004 -004 -004 -005	SF REQUI	MIN.		DATE	4_ of	T ITEM NO.	PERKIN-ELMER femory Products Division TLE SUPER SERIES DESCRIPTION PRINTED WIRING BOARDS: Assy. Disc Control PWB(concluded)	MODEL	SF REGG	D MINIMA		REMARKS NEXT ASSEMBLY/USED O Top 2400RPM, 5us Index v 48 or 50 Sector Cart. Top 1500RPM, 5us Index Top 1500RPM, 5us Index Top 1500RPM, 10us Index Top 1500RPM, 10us Index	OF
T. ITEM NO.	DESCRIPTION PRINTED WIRING BOARDS: Assy. Servo Logic PWB	MODEL _ PART NO. 301687-001 -002 -003 -004 -004 -004 -005 -006	SF REOF	MIN.		DATE	4_ of	T ITEM NO.	PERKIN-ELMER femory Products Division TLE SUPER SERIES DESCRIPTION PRINTED WIRING BOARDS: Assy. Disc Control PWB(concluded)	MODEL PART NO. 301632-014 -015 -016 -017 -018 301291-001 -002	SF REQU	MIN		REMARKS NEXT ASSEMBLY/USED O Top 2400RPM, 5us Index v 48 or 50 Sector Cart. Top 1500RPM, 5us Index Top 1500RPM, 5us Index Top 1500RPM, 40us Index Top 1500RPM, 40us Index Internal Term. Voltage External Term. Voltage	OF
3 3	DESCRIPTION PRINTED WIRING BOARDS: Assy, Servo Logic PWB Assy, Data Electronics PWB	MODEL _ PART NO. 301687-001 -002 -003 -004 301206-001 -004 -005 -006 -008	SFREQUENT	F & ST		DATE	4_ of	T ITEM NO.	PERKIN-ELMER femory Products Division TLE SUPER SERIES DESCRIPTION PRINTED WIRING BOARDS: Assy. Disc Control PWB(concluded)	MODEL MODEL	SF REGION 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	D MIN		REMARKS NEXT ASSEMBLY/USED O Top 2400RPM, 5us Index v 48 or 50 Sector Cart. Top 1500RPM, 5us Index Top 1500RPM, 10us Index Top 1500RPM, 40us Index Top 1500RPM, 40us Index Top 1500RPM, 40us Index Top 1500RPM, 40us Index	ON with
3 3	DESCRIPTION PRINTED WIRING BOARDS: Assy. Servo Logic PWB	MODEL _ PART NO. 301687-001 -002 -003 -004 -005 -006 -008 -008	SFREQUENT	MIN. REV.		DATE	4_ of	T ITEM NO.	PERKIN-ELMER femory Products Division TLE SUPER SERIES DESCRIPTION PRINTED WIRING BOARDS: Assy. Disc Control PWB(concluded)	MODEL PART NO. 301632-014 -015 -016 -017 -018 301291-001 -002	SF REGION 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	D MIN		REMARKS NEXT ASSEMBLY/USED O Top 2400RPM, 5us Index v 48 or 50 Sector Cart. Top 1500RPM, 5us Index Top 1500RPM, 5us Index Top 1500RPM, 40us Index Top 1500RPM, 40us Index Internal Term. Voltage External Term. Voltage	ON with
3 3	DESCRIPTION PRINTED WIRING BOARDS: Assy, Servo Logic PWB Assy, Data Electronics PWB	301687-001 -002 -003 -004 -004 -005 -008 -008 -008	SF REOF 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	MIN. REV.		DATE	4 of	T ITEM NO.	PERKIN-ELMER femory Products Division TLE SUPER SERIES DESCRIPTION PRINTED WIRING BOARDS: Assy. Disc Control PWB(concluded)	MODEL MODEL	SF REGION 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	D MIN		REMARKS NEXT ASSEMBLY/USED O Top 2400RPM, 5us Index v 48 or 50 Sector Cart. Top 1500RPM, 5us Index Top 1500RPM, 10us Index Top 1500RPM, 40us Index Top 1500RPM, 40us Index Top 1500RPM, 40us Index Top 1500RPM, 40us Index	ON with
3 3	DESCRIPTION PRINTED WIRING BOARDS: Assy, Servo Logic PWB Assy, Data Electronics PWB	MODEL _ PART NO. 301687-001 -002 -003 -004 -005 -006 -008 -008	SFREQUENT	MIN. REV.		DATE	4 of	TTEMNO.	PERKIN-ELMER femory Products Division SUPER SERIES DESCRIPTION PRINTED WIRING BOARDS: Assy. Disc Control PWB(concluded) Assy. I/O Connector PWB	MODEL MODEL	SF REGION 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	D MIN		REMARKS NEXT ASSEMBLY/USED O Top 2400RPM, 5us Index v 48 or 50 Sector Cart. Top 1500RPM, 5us Index Top 1500RPM, 5us Index Top 1500RPM, 10us Index Top 1500RPM, 40us Index Internal Term. Voltage External Term. Voltage D-40 Connector D-30 Connector (100TPI O	ON with
3 3 4	DESCRIPTION PRINTED WIRING BOARDS: Assy, Servo Logic PWB Assy, Data Electronics PWB Assy, Servo Amplifier PWB	301687-001 -002 -003 -004 -005 -006 -008 -008	SF REQUEST	- ST & ST MIN. REV.		DATE	DON TPI TPI TTPI TTPI TTPI TTPI	TTEMNO.	PERIKIN-ELMER femory Products Division TLE SUPER SERIES DESCRIPTION PRINTED WIRING BOARDS: Assy. Disc Control PWB(concluded) Assy. I/O Connector PWB	MODEL MODE	SF REGION 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	D MIN REV		REMARKS NEXT ASSEMBLY/USED O Top 2400RPM, 5us Index v 48 or 50 Sector Cart. Top 1500RPM, 5us Index Top 1500RPM, 10us Index Top 1500RPM, 10us Index Top 1500RPM, 40us Index Internal Term. Voltage External Term. Voltage D-40 Connector D-30 Connector (100TPI O	ON with
3 3 4	DESCRIPTION PRINTED WIRING BOARDS: Assy, Servo Logic PWB Assy, Data Electronics PWB	301687-001 -002 -003 -004 -004 -005 -006 -008 -008 -002 -003 -003	SF REQUIRED TO THE PROPERTY OF	= & ST		DATE	A_ of D ON D TPI TTPI TTPI TTPI TTPI TTPI	TTEMNO.	PERION ELMER femory Products Division TILE SUPER SERIES DESCRIPTION PRINTED WIRING BOARDS: Assy. Disc Control PWB(concluded) Assy. I/O Connector PWB Assy. Line Terminator PWB MALE	MODEL MODEL MODEL MODEL MODEL MODEL MODEL MODE MODE MODE MODE MODE MODE MODE MODE	SF REGION 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	D MIN RE		REMARKS NEXT ASSEMBLY/USED O Top 2400RPM, 5us Index v 48 or 50 Sector Cart. Top 1500RPM, 5us Index Top 1500RPM, 10us Index Top 1500RPM, 10us Index Top 1500RPM, 40us Index Internal Term. Voltage External Term. Voltage D-40 Connector D-30 Connector (100TPI O Use with 301291 Use with 301062	ON with
3 3 4	DESCRIPTION PRINTED WIRING BOARDS: Assy, Servo Logic PWB Assy, Data Electronics PWB Assy, Servo Amplifier PWB	301687-001 -002 -003 -004 -005 -006 -008 -008 -003 -004 -005 -008 -008 -008	SF REGG 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	F & ST		DATE	A_ of	TTEMNO.	PERKIN-ELMER #emory Products Division TILE SUPER SERIES DESCRIPTION PRINTED WIRING BOARDS: Assy. Disc Control PWB(concluded) Assy. I/O Connector PWB Assy. Line Terminator PWB MALE FEMALE	MODEL MODEL MODEL MODEL MODEL MODEL MODEL MODE MODE MODE MODE MODE MODE MODE MODE	SF REOF	D MIN RE		REMARKS NEXT ASSEMBLY/USED O Top 2400RPM, 5us Index v 48 or 50 Sector Cart. Top 1500RPM, 5us Index Top 1500RPM, 10us Index Top 1500RPM, 40us Index Top 1500RPM, 40us Index Internal Term. Voltage External Term. Voltage D-40 Connector D-30 Connector (100TPI O Use with 301291 Use with 301062	ON with
3 3 4	DESCRIPTION PRINTED WIRING BOARDS: Assy, Servo Logic PWB Assy, Data Electronics PWB Assy, Servo Amplifier PWB	301687-001 -002 -003 -004 -005 -006 -008 -008 -003 301483-001 -002 -003 -0004	SF REGG 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	F & ST		DATE	A_ OF	TTEMNO.	PERKIN-ELMER **Remory Products Division** **DESCRIPTION** PRINTED WIRING BOARDS: Assy. Disc Control PWB(concluded) Assy. I/O Connector PWB **Assy. Line Terminator PWB** **MALE** MODEL MODEL MODEL MODEL MODEL MODEL MODEL MODE MODE MODE MODE MODE MODE MODE MODE	SF REOF	D MINITED IN THE PROPERTY OF T		REMARKS NEXT ASSEMBLY/USED O Top 2400RPM, 5us Index v 48 or 50 Sector Cart. Top 1500RPM, 5us Index Top 1500RPM, 5us Index Top 1500RPM, 40us Index Top 1500RPM, 40us Index Internal Term. Voltage External Term. Voltage External Term. Voltage Use with 301291 Use with 301062 Use with 301062 Use with 301062 Use with 301453	ON with	
3 3 4	DESCRIPTION PRINTED WIRING BOARDS: Assy, Servo Logic PWB Assy, Data Electronics PWB Assy, Servo Amplifier PWB	MODEL _ PART NO. 301687-001 -002 -003 -004 -006 -008 -008 -001 -002 -003 -003 -004 -005 -008	SF REOF	F & ST		DATE	D ON DON DON DON DON DON DON DON DON DON	TTEMNO.	PERKIN-ELMER #emory Products Division TILE SUPER SERIES DESCRIPTION PRINTED WIRING BOARDS: Assy. Disc Control PWB(concluded) Assy. I/O Connector PWB Assy. Line Terminator PWB MALE FEMALE	MODEL MODEL MODEL MODEL MODEL MODEL MODEL MODE MODE MODE MODE MODE MODE MODE MODE	SF REOF	D MINITED IN THE PROPERTY OF T		REMARKS NEXT ASSEMBLY/USED O Top 2400RPM, 5us Index v 48 or 50 Sector Cart. Top 1500RPM, 5us Index Top 1500RPM, 10us Index Top 1500RPM, 40us Index Top 1500RPM, 40us Index Internal Term. Voltage External Term. Voltage D-40 Connector D-30 Connector (100TPI O Use with 301291 Use with 301062	ON with
3 3 4	DESCRIPTION PRINTED WIRING BOARDS: Assy, Servo Logic PWB Assy, Data Electronics PWB Assy, Servo Amplifier PWB	301687-001 -002 -003 -004 -006 -008 -008 -009 -003 -009 -009 -009 -009 -009 -009	SF REGG 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	D MIN.		DATE	D ON DON DON DON DON DON DON DON DON DON	TTEMNO.	PERKIN-ELMER **Remory Products Division** **DESCRIPTION** PRINTED WIRING BOARDS: Assy. Disc Control PWB(concluded) Assy. I/O Connector PWB **Assy. Line Terminator PWB** **MALE** MODEL MODEL MODEL MODEL MODEL MODEL MODEL MODE MODE MODE MODE MODE MODE MODE MODE	SF REOF	D MINITED IN THE PROPERTY OF T		REMARKS NEXT ASSEMBLY/USED O Top 2400RPM, 5us Index v 48 or 50 Sector Cart. Top 1500RPM, 5us Index Top 1500RPM, 5us Index Top 1500RPM, 40us Index Top 1500RPM, 40us Index Internal Term. Voltage External Term. Voltage External Term. Voltage Use with 301291 Use with 301062 Use with 301062 Use with 301062 Use with 301453	ON with	
3 3 4	DESCRIPTION PRINTED WIRING BOARDS: Assy, Servo Logic PWB Assy, Data Electronics PWB Assy, Servo Amplifier PWB	301687-001 -002 -003 -004 -006 -008 -003 -003 -004 -006 -008 -008 -008 -008 -008 -008 -008	SF REOF	D MIN.		DATE	DON DON DON DON DON DON DON DON DON DON	TTEMNO.	PERKIN-ELMER **Remory Products Division** **DESCRIPTION** PRINTED WIRING BOARDS: Assy. Disc Control PWB(concluded) Assy. I/O Connector PWB **Assy. Line Terminator PWB** **MALE** MODEL MODEL MODEL MODEL MODEL MODEL MODEL MODE MODE MODE MODE MODE MODE MODE MODE	SF REOF	D MINITED IN THE PROPERTY OF T		REMARKS NEXT ASSEMBLY/USED O Top 2400RPM, 5us Index v 48 or 50 Sector Cart. Top 1500RPM, 5us Index Top 1500RPM, 5us Index Top 1500RPM, 40us Index Top 1500RPM, 40us Index Internal Term. Voltage External Term. Voltage External Term. Voltage Use with 301291 Use with 301062 Use with 301062 Use with 301062 Use with 301453	ON with	
3 3 4	DESCRIPTION PRINTED WIRING BOARDS: Assy, Servo Logic PWB Assy, Data Electronics PWB Assy, Servo Amplifier PWB	301687-001 -002 -003 -004 -006 -008 -008 -009 -003 -009 -009 -009 -009 -009 -009	SF REOF 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	F & ST		DATE	DON DON DON DITPI TIPI TEMNO.	PERKIN-ELMER **Remory Products Division** **DESCRIPTION** PRINTED WIRING BOARDS: Assy. Disc Control PWB(concluded) Assy. I/O Connector PWB **Assy. Line Terminator PWB** **MALE** MODEL MODEL MODEL MODEL MODEL MODEL MODEL MODE MODE MODE MODE MODE MODE MODE MODE	SF REOF	D MINITED IN THE PROPERTY OF T		REMARKS NEXT ASSEMBLY/USED O Top 2400RPM, 5us Index v 48 or 50 Sector Cart. Top 1500RPM, 5us Index Top 1500RPM, 5us Index Top 1500RPM, 40us Index Top 1500RPM, 40us Index Internal Term. Voltage External Term. Voltage External Term. Voltage Use with 301291 Use with 301062 Use with 301062 Use with 301062 Use with 301453	ON with		
3 3 4	DESCRIPTION PRINTED WIRING BOARDS: Assy, Servo Logic PWB Assy, Data Electronics PWB Assy, Servo Amplifier PWB	301687-001 -002 -003 -004 -005 -008 -008 -003 -0003 -0004 -005 -0000 -0000 -0000 -0000 -0000 -0000 -0000	SF REGG	F & ST		DATE	DON DON DTPI TTPI TTPI TTPI TTPI TTPI TTPI TTPI TTPI Gex dex dex dex dex dex	TTEMNO.	PERKIN-ELMER **Remory Products Division** **DESCRIPTION** PRINTED WIRING BOARDS: Assy. Disc Control PWB(concluded) Assy. I/O Connector PWB **Assy. Line Terminator PWB** **MALE** MODEL MODEL MODEL MODEL MODEL MODEL MODEL MODE MODE MODE MODE MODE MODE MODE MODE	SF REOF	D MINITED IN THE PROPERTY OF T		REMARKS NEXT ASSEMBLY/USED O Top 2400RPM, 5us Index v 48 or 50 Sector Cart. Top 1500RPM, 5us Index Top 1500RPM, 5us Index Top 1500RPM, 40us Index Top 1500RPM, 40us Index Internal Term. Voltage External Term. Voltage External Term. Voltage Use with 301291 Use with 301062 Use with 301062 Use with 301062 Use with 301453	ON with	
3 3 4	DESCRIPTION PRINTED WIRING BOARDS: Assy, Servo Logic PWB Assy, Data Electronics PWB Assy, Servo Amplifier PWB	301687-001 -002 -003 -004 -005 -008 -003 -004 -005 -008 -008 -008 -0006	SF REGGE 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	F & ST		DATE	A_ of DON DON DON DITPI TTPI TTPI TTPI TTPI TTPI TTPI GEX Hex Hex Hex Hex Hex Hex Hex Hex Hex Hex	TTEMNO.	PERKIN-ELMER **Remory Products Division** **DESCRIPTION** PRINTED WIRING BOARDS: Assy. Disc Control PWB(concluded) Assy. I/O Connector PWB **Assy. Line Terminator PWB** **MALE** MODEL MODEL MODEL MODEL MODEL MODEL MODEL MODE MODE MODE MODE MODE MODE MODE MODE	SF REOF	D MINITED IN THE PROPERTY OF T		REMARKS NEXT ASSEMBLY/USED O Top 2400RPM, 5us Index v 48 or 50 Sector Cart. Top 1500RPM, 5us Index Top 1500RPM, 5us Index Top 1500RPM, 40us Index Top 1500RPM, 40us Index Internal Term. Voltage External Term. Voltage External Term. Voltage Use with 301291 Use with 301062 Use with 301062 Use with 301062 Use with 301453	ON with	
3 3 4	DESCRIPTION PRINTED WIRING BOARDS: Assy, Servo Logic PWB Assy, Data Electronics PWB Assy, Servo Amplifier PWB	301687-001 -002 -003 -004 -005 -008 -003 -004 -005 -006 -008 -008 -0006 -0006 -0006 -0006 -0006 -0006 -0006 -0006 -0006 -0006 -0006	SF REGO 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	F & ST		DATE	4_ of DON DON DON DITPI ITPI ITPI ITPI ITPI ITPI Itri Itri Itri Itri Itri Itri Itri Itr	TTEMNO.	PERKIN-ELMER **Remory Products Division** **DESCRIPTION** PRINTED WIRING BOARDS: Assy. Disc Control PWB(concluded) Assy. I/O Connector PWB **Assy. Line Terminator PWB** **MALE** MODEL MODEL MODEL MODEL MODEL MODEL MODEL MODE MODE MODE MODE MODE MODE MODE MODE	SF REOF	D MINITED IN THE PROPERTY OF T		REMARKS NEXT ASSEMBLY/USED O Top 2400RPM, 5us Index v 48 or 50 Sector Cart. Top 1500RPM, 5us Index Top 1500RPM, 5us Index Top 1500RPM, 40us Index Top 1500RPM, 40us Index Internal Term. Voltage External Term. Voltage External Term. Voltage Use with 301291 Use with 301062 Use with 301062 Use with 301062 Use with 301453	ON with	
3 3 4	DESCRIPTION PRINTED WIRING BOARDS: Assy, Servo Logic PWB Assy, Data Electronics PWB Assy, Servo Amplifier PWB	301687-001 -002 -003 -004 -005 -006 -008 -003 -0003 -0004 -005 -0006 -0008 -0008 -0009 -0009	SF REGGE 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	F & ST		200 TPI, 406 Tracks 200 TPI, 406 Tracks 200 TPI, 406 Tracks 100 TPI, 203 Tracks 100 TPI, 204 Tracks 100 TPI, 204 Tracks 200 EPI, 1500 EPM, 200 200 EPI, 1500 EPM, 100 200 EPI, 2400 EPM, 100 200 EPI, 2400 EPM, 200 200 EPI, 2400 EPM, 200 200 EPI, 2400 EPM, 200 200 EPI, 2400 EPM, 200 100 TPI 200 TPI with Track Offset 200 TPI No Track Offset Front 1500 EPM, 5us Index Front 1500 EPM, 5us Index Front 1500 EPM, 500 Index Front 1500 EPM, 500 Index Front 2400 EPM, 500 Index Front 2400 EPM, 500 Index Front 2400 EPM, 500 Index Front 2400 EPM, 500 Index Front 2400 EPM, 500 Index Front 2400 EPM, 500 Index Front 1500 EPM, 500 Index Front 1500 EPM, 500 Index Front 1500 EPM, 500 Index Front 1500 EPM, 500 Index Front 1500 EPM, 100 Index Front 1500 EPM, 100 Index Front 1500 EPM, 100 Index Front 1500 EPM, 100 Index Front 1500 EPM, 4	DON DON DON DON DON DON DON DON DON DON	TTEMNO.	PERKIN-ELMER **Remory Products Division** **DESCRIPTION** PRINTED WIRING BOARDS: Assy. Disc Control PWB(concluded) Assy. I/O Connector PWB **Assy. Line Terminator PWB** **MALE** MODEL MODEL MODEL MODEL MODEL MODEL MODEL MODE MODE MODE MODE MODE MODE MODE MODE	SF REOF	D MINITED IN THE PROPERTY OF T		REMARKS NEXT ASSEMBLY/USED O Top 2400RPM, 5us Index v 48 or 50 Sector Cart. Top 1500RPM, 5us Index Top 1500RPM, 5us Index Top 1500RPM, 40us Index Top 1500RPM, 40us Index Internal Term. Voltage External Term. Voltage External Term. Voltage Use with 301291 Use with 301062 Use with 301062 Use with 301062 Use with 301453	ON with	

Front 1500RPM, 40us Index Front, 2400RPM, 40us index
Top 2400RPM, 40us Index Top 1500RPM, 5us Index with 48 or 50 Sector Certridge

PF	TIT						
	ITEM NO.	DESCRIPTION	PART NO.	REQO	MIN. REV.	ACT. REV.	REMARKS
= 1							NEXT ASSEMBLY/USED ON
	l	DENITED WIGHING BOARDS					
	┝╌	PRINTED WIRING BOARDS:	201102 201	Н		\dashv	04000014 4400 001
upper	1	Assy. DIB (MFM) PWB	301422-001	1			2400RPM, 4400 BPI
lower	┝	Assy. DIB (VFO) PWB	301320-001	1			1500RPM, Write Dbl. Freq.
upper	\vdash			\vdash		_	Read Pulse "D".
lower	\vdash		-002	1			1500RPM, Wrt. Dbl. Freq.,Rd.N
upper	\sqcup		-004	1			1500RPM, Wrt. NRZI, Rd. NRZ
ower	\vdash		-005	1			1500RPM, Wrt. NRZI, 1588.5,
upper							Read NRZI
lower	\Box		-007	1			2400RPM, Wrt. NRZI, Rd. NRZ
upper			-009	1			2400RPM, Wrt. Dbl. Freq., Reac
lower							NRZI
			-010	1			2400RPM, Write Dbl. Freq.,
							Read Pulse "D"
	2	Assy. Control Interface PWB	301174-001	1			D-30 Sector Counter, Multiplexe
—1 I							III Add-Pulse.
	П		-002	1			D-40 Sector Counter, Multiplexe
_	\Box	NOTE: -1XX Series has Temperature		<u> </u>			III. Add-Pulse
	\vdash		-003	1	_		C-300/200 Sector Counter, Mult
	$\vdash \dashv$	Control Write Lockout for use on	-003	1	\vdash	Н	P3000 Sector Ctr., Multiplexed
	\vdash	200 TPI.		-	_	-	
	\vdash		-005	1		-	D-30 No Sector CtrInd. Lines
	Н	· 	-006	1			C-300/200 No Sector Counter
	\vdash			<u> </u>		_	Ind. Lines
	Ш		-007	1		_	D-40 No Sector Counter-Ind. Lin
	Ш			Ь.			III. Add-Level
— 1			-008	1			GA-Caelus Sector Counter Mult.
			-009	1			D40 Sector Counter Multiplexed
— I I	Ш						
							III. Add-Pulse
REV.		ERKIN-ELMER MA	R SPARES LIST				
	Me	ERKIN-ELMER MA mory Products Division	R SPARES LIST		k ST		PART NUMBER RE
REV.	Me	ERKIN-ELMER MA	R SPARES LIST	SF 8			PART NUMBER RE
	Me	ERKIN-ELMER MA mory Products Division	R SPARES LIST	SF 8	MIN. REV.		PART NUMBER RE
	Me	ERKIN-ELMER MA mory Products Division TLE SUPER SERIES	R SPARES LIST	SF 8			PART NUMBER RE
OF	Me	EPIKIN-ELMER mory Products Division TLE SUPER SERIES DESCRIPTION	R SPARES LIST	SF 8			PART NUMBER RE DATESHEET 6 OF REMARKS
OF	TI'	EPIKIN-ELMER mory Products Division TLE SUPER SERIES DESCRIPTION POWER SUPPLY & OCP ITEMS:	R SPARES LIST TERIAL L MODEL . PART NO.	SF 8			PART NUMBER RE DATESHEET 6 OF REMARKS NEXT ASSEMBLY/USED ON
OF	ITEM NO.	ERKIN-ELMER mory Products Division TLE SUPER SERIES DESCRIPTION POWER SUPPLY & OCP ITEMS: Fuse 5 amp	R SPARES LIST TERIAL L MODEL . PART NO.	SF &			PART NUMBER RE DATESHEET 6 OF REMARKS NEXT ASSEMBLY/USED ON Used on 301361
OF	TITEM NO.	ERKIN-ELMER mory Products Division TLE SUPER SERIES DESCRIPTION POWER SUPPLY & OCP ITEMS: Fuse 5 amp Fuse 10 amp	R SPARES LIST TERIAL L MODEL . PART NO. 100028-020 100028-027	SF 8			PART NUMBER RE DATESHEET 6 OF REMARKS NEXT ASSEMBLY/USED ON Used on 301361 """
OF	ITEM NO.	POWER SUPPLY & OCP ITEMS: Fuse 5 amp Fuse 10 amp Bridge , Diode MDA-980-1	R SPARES LIST TERIAL L MODEL - PART NO. 100028-020 100028-027 101033-002	SF &			PART NUMBER RE DATESHEET 6 OF REMARKS NEXT ASSEMBLY/USED ON Used on 301361
OF	TITEM NO.	ERKIN-ELMER mory Products Division TLE SUPER SERIES DESCRIPTION POWER SUPPLY & OCP ITEMS: Fuse 5 amp Fuse 10 amp	PART NO. 100028-020 100028-027 101033-002 101077-001	SF 8			PART NUMBER PART NUMBER REMARKS NEXT ASSEMBLY/USED ON Used on 301361 """ Used on 301350 OCP
OF	1 2 3 4	ERKIN-ELMER mory Products Division SUPER SERIES DESCRIPTION POWER SUPPLY & OCP ITEMS: Fuse 5 amp Fuse 10 amp Bridge , Diode MDA-980-1 Rocker Switch	PART NO. 100028-020 100028-027 101033-002 101077-001 -002	SF 8			PART NUMBER RE DATE SHEET 6 OF REMARKS NEXT ASSEMBLY/USED ON Used on 301361 """ Used on 301350 OCP """
OF	1 2 3 4	ERKIN-ELMER mory Products Division DESCRIPTION POWER SUPPLY & OCP ITEMS: Fuse 10 amp Bridge , Diode MDA-980-1 Rocker Switch Bezel, Switch	PART NO. 100028-020 100028-027 101033-002 101077-001 -002 101078	SF 8 REGOD 1 1 2 2 3 1 4			PART NUMBER RE DATESHEET _6 OF REMARKS NEXT ASSEMBLY/USED ON Used on 301361
OF	1 2 3 4 5 6	POWER SUPPLY & OCP ITEMS: Fuse 10 amp Bridge, Diode MDA-980-1 Rocker Switch Bezel, Switch Lens, "POWER"	MODEL	SF 8 REGOD 1 1 2 2 3 1 4 1 1			PART NUMBER RE DATE SHEET _6 OF REMARKS NEXT ASSEMBLY/USED ON Used on 301361 " " " Used on 301350 OCP " " " " " "
OF	1 2 3 4	ERKIN-ELMER mory Products Division POWER SUPER SERIES DESCRIPTION POWER SUPPLY & OCP ITEMS: Fuse 5 amp Fuse 10 amp Bridge , Diode MDA-980-1 Rocker Switch Bezel , Switch Lens, "POWER" Lens, "RUN/LOAD"	PART NO. 100028-020 100028-027 101033-002 101077-001 -002 101078	SF 8 REGOD 1 1 2 2 3 1 4			PART NUMBER RE DATESHEET 6 OF _ REMARKS NEXT ASSEMBLY/USED ON Used on 301361
OF	1 2 3 4 5 6	POWER SUPPLY & OCP ITEMS: Fuse 10 amp Bridge, Diode MDA-980-1 Rocker Switch Bezel, Switch Lens, "POWER"	MODEL	SF 8 REGOD 1 1 2 2 3 1 4 1 1			PART NUMBER RE DATE SHEET OF REMARKS NEXT ASSEMBLY/USED ON Used on 301361
OF	1 1 2 3 4 5 6 7	ERKIN-ELMER mory Products Division POWER SUPER SERIES DESCRIPTION POWER SUPPLY & OCP ITEMS: Fuse 5 amp Fuse 10 amp Bridge , Diode MDA-980-1 Rocker Switch Bezel , Switch Lens, "POWER" Lens, "RUN/LOAD"	MODEL	SF 8 REQUIRED 1 2 2 3 1 4 1 1			PART NUMBER RE DATESHEET 6 OF _ REMARKS NEXT ASSEMBLY/USED ON Used on 301361
OF	1 1 2 3 4 5 6 7 8	ERKIN-ELMER mory Products Division POWER SUPER SERIES DESCRIPTION POWER SUPPLY & OCP ITEMS: Fuse 5 amp Fuse 10 amp Bridge , Diode MDA-980-1 Rocker Switch Bezel , Switch Lens, "POWER" Lens, "RUN/LOAD" Lens, "PROTECT CART" Lens, "PROTECT CART" Lens, "PROTECT FIXED"	MODEL	SF 8 REQUE			PART NUMBER RE DATE SHEET OF REMARKS NEXT ASSEMBLY/USED ON Used on 301361
OF	11 2 3 4 5 6 7 8 9	POWER SUPPLY & OCP ITEMS: Fuse 5 amp Fuse 10 amp Bridge , Diode MDA-980-1 Rocker Switch Bezel, Switch Lens, "POWER" Lens, "RUN/LOAD" Lens, "PROTECT CART" Lens, "PROTECT CART" Lens, "PROTECT FIXED"	MODEL PART NO. 100028-020 100028-027 101033-002 101077-001 -002 101078 101079-001 -002 -003 -004	SF 8 PEOD 1 1 2 2 3 1 4 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1			PART NUMBER RE DATE SHEET OF REMARKS NEXT ASSEMBLY/USED ON Used on 301361 "
OF	11 1 2 3 4 5 6 7 8 9 10	POWER SUPPLY & OCP ITEMS: Fuse 5 amp Fuse 10 amp Bridge , Diode MDA-980-1 Rocker Switch Bezel, Switch Lens, "POWER" Lens, "RUN/LOAD" Lens, "PROTECT CART" Lens, "PROTECT FIXED" Lens, "READY/LOAD"	PART NO. 100028-020 100028-027 101033-002 101077-001 -002 101078 101079-001 -002 -003 -004 101081-001	SF 8 PEGDD 1 1 2 2 3 1 4 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1			PART NUMBER RE DATESHEET 6 OF REMARKS NEXT ASSEMBLY/USED ON Used on 301361 " " " Used on 301350 OCP " " " " " " " " " " " " " " " " " " " " " " " " " " " "
OF	1 1 2 3 4 5 6 6 7 8 9 10 11	POWER SUPPLY & OCP ITEMS: Fuse 10 amp Bridge , Diode MDA-980-1 Rocker Switch Bezzel, Switch Lens, "POWER" Lens, "PROTECT CART" Lens, "PROTECT FIXED" Lens, "READY/LOAD" Lamp, 28V	PART NO. 100028-020 100028-027 101033-002 101077-001 -002 101078 101079-001 -002 -003 -004 101081-001 101082-003	SF 8 REGOD 1 2 2 3 1 4 1 1 1 1 1 1 1 3			PART NUMBER PART NUMBER REMARKS NEXT ASSEMBLY/USED ON Used on 301350 OCP """ """ """ """ """ """ """
or—	1 1 2 3 4 4 5 6 6 7 8 9 10 11 12	ERKIN-ELMER mory Products Division SUPER SERIES DESCRIPTION POWER SUPPLY & OCP ITEMS: Fuse 5 amp Fuse 10 amp Bridge , Diode MDA-980-1 Rocker Switch Bezel, Switch Lens, "POWER" Lens, "PROTECT CART" Lens, "PROTECT CART" Lens, "PROTECT FIXED" Lens, "READY/LOAD" Lamp, 28V Lamp, 28V	PART NO. 100028-020 100028-027 101033-002 101077-001 -002 101078 101079-001 -003 -004 101081-001 101082-003 101083-002	SF 8 REGOD 1 2 2 3 1 4 1 1 1 1 1 1 3 2 2			PART NUMBER PART NUMBER REMARKS NEXT ASSEMBLY/USED ON Used on 301350 OCP """ """ """ """ """ """ """
or—	1 1 2 3 4 4 5 6 6 7 8 9 10 11 12	ERKIN-ELMER mory Products Division SUPER SERIES DESCRIPTION POWER SUPPLY & OCP ITEMS: Fuse 5 amp Fuse 10 amp Bridge , Diode MDA-980-1 Rocker Switch Bezel, Switch Lens, "POWER" Lens, "PROTECT CART" Lens, "PROTECT CART" Lens, "PROTECT FIXED" Lens, "READY/LOAD" Lamp, 28V Lamp, 28V	PART NO. 100028-020 100028-027 101033-002 101077-001 -002 101078 101079-001 -003 -004 101081-001 101082-003 101083-002	SF 8 REGOD 1 2 2 3 1 4 1 1 1 1 1 1 3 2 2			PART NUMBER RE DATESHEET 6 OF REMARKS NEXT ASSEMBLY/USED ON Used on 301351 " " " " " " " " " " " " " " " " " "
or—	1 1 2 3 4 4 5 6 6 7 8 9 10 11 12	ERKIN-ELMER mory Products Division SUPER SERIES DESCRIPTION POWER SUPPLY & OCP ITEMS: Fuse 5 amp Fuse 10 amp Bridge , Diode MDA-980-1 Rocker Switch Bezel, Switch Lens, "POWER" Lens, "PROTECT CART" Lens, "PROTECT CART" Lens, "PROTECT FIXED" Lens, "READY/LOAD" Lamp, 28V Lamp, 28V	PART NO. 100028-020 100028-027 101033-002 101077-001 -002 101078 101079-001 -003 -004 101081-001 101082-003 101083-002	SF 8 REGOD 1 2 2 3 1 4 1 1 1 1 1 1 3 2 2			PART NUMBER RE DATESHEET 6 OF REMARKS NEXT ASSEMBLY/USED ON Used on 301351 " " " " " " " " " " " " " " " " " "
or—	1 1 2 3 4 4 5 6 6 7 8 9 10 11 12	ERKIN-ELMER mory Products Division SUPER SERIES DESCRIPTION POWER SUPPLY & OCP ITEMS: Fuse 5 amp Fuse 10 amp Bridge , Diode MDA-980-1 Rocker Switch Bezel, Switch Lens, "POWER" Lens, "PROTECT CART" Lens, "PROTECT CART" Lens, "PROTECT FIXED" Lens, "READY/LOAD" Lamp, 28V Lamp, 28V	PART NO. 100028-020 100028-027 101033-002 101077-001 -002 101078 101079-001 -003 -004 101081-001 101082-003 101083-002	SF 8 REGOD 1 2 2 3 1 4 1 1 1 1 1 1 3 2 2			PART NUMBER RE DATESHEET 6 OF REMARKS NEXT ASSEMBLY/USED ON Used on 301351 " " " " " " " " " " " " " " " " " "
or—	1 1 2 3 4 4 5 6 6 7 8 9 10 11 12	ERKIN-ELMER mory Products Division SUPER SERIES DESCRIPTION POWER SUPPLY & OCP ITEMS: Fuse 5 amp Fuse 10 amp Bridge , Diode MDA-980-1 Rocker Switch Bezel, Switch Lens, "POWER" Lens, "PROTECT CART" Lens, "PROTECT CART" Lens, "PROTECT FIXED" Lens, "READY/LOAD" Lamp, 28V Lamp, 28V	PART NO. 100028-020 100028-027 101033-002 101077-001 -002 101078 101079-001 -003 -004 101081-001 101082-003 101083-002	SF 8 REGOD 1 2 2 3 1 4 1 1 1 1 1 1 3 2 2			PART NUMBER RE DATESHEET 6 OF REMARKS NEXT ASSEMBLY/USED ON Used on 301351 " " " " " " " " " " " " " " " " " "
or—	1 1 2 3 4 4 5 6 6 7 8 9 10 11 12	ERKIN-ELMER mory Products Division SUPER SERIES DESCRIPTION POWER SUPPLY & OCP ITEMS: Fuse 5 amp Fuse 10 amp Bridge , Diode MDA-980-1 Rocker Switch Bezel, Switch Lens, "POWER" Lens, "PROTECT CART" Lens, "PROTECT CART" Lens, "PROTECT FIXED" Lens, "READY/LOAD" Lamp, 28V Lamp, 28V	PART NO. 100028-020 100028-027 101033-002 101077-001 -002 101078 101079-001 -003 -004 101081-001 101082-003 101083-002	SF 8 REGOD 1 2 2 3 1 4 1 1 1 1 1 1 3 2 2			PART NUMBER PART NUMBER REMARKS NEXT ASSEMBLY/USED ON Used on 301350 OCP """ """ """ """ """ """ """
or—	1 1 2 3 4 4 5 6 6 7 8 9 10 11 12	ERKIN-ELMER mory Products Division SUPER SERIES DESCRIPTION POWER SUPPLY & OCP ITEMS: Fuse 5 amp Fuse 10 amp Bridge , Diode MDA-980-1 Rocker Switch Bezel, Switch Lens, "POWER" Lens, "PROTECT CART" Lens, "PROTECT CART" Lens, "PROTECT FIXED" Lens, "READY/LOAD" Lamp, 28V Lamp, 28V	PART NO. 100028-020 100028-027 101033-002 101077-001 -002 101078 101079-001 -003 -004 101081-001 101082-003 101083-002	SF 8 REGOD 1 2 2 3 1 4 1 1 1 1 1 1 3 2 2			PART NUMBER RE DATESHEET 6 OF REMARKS NEXT ASSEMBLY/USED ON Used on 301351 " " " " " " " " " " " " " " " " " "
or—	1 1 2 3 4 4 5 6 6 7 8 9 10 11 12	ERKIN-ELMER mory Products Division SUPER SERIES DESCRIPTION POWER SUPPLY & OCP ITEMS: Fuse 5 amp Fuse 10 amp Bridge , Diode MDA-980-1 Rocker Switch Bezel, Switch Lens, "POWER" Lens, "PROTECT CART" Lens, "PROTECT CART" Lens, "PROTECT FIXED" Lens, "READY/LOAD" Lamp, 28V Lamp, 28V	PART NO. 100028-020 100028-027 101033-002 101077-001 -002 101078 101079-001 -003 -004 101081-001 101082-003 101083-002	SF 8 REGOD 1 2 2 3 1 4 1 1 1 1 1 1 3 2 2			PART NUMBER RE DATESHEET 6 OF REMARKS NEXT ASSEMBLY/USED ON Used on 301351 " " " " " " " " " " " " " " " " " "
or—	1 1 2 3 4 4 5 6 6 7 8 9 10 11 12	ERKIN-ELMER mory Products Division SUPER SERIES DESCRIPTION POWER SUPPLY & OCP ITEMS: Fuse 5 amp Fuse 10 amp Bridge , Diode MDA-980-1 Rocker Switch Bezel, Switch Lens, "POWER" Lens, "PROTECT CART" Lens, "PROTECT CART" Lens, "PROTECT FIXED" Lens, "READY/LOAD" Lamp, 28V Lamp, 28V	PART NO. 100028-020 100028-027 101033-002 101077-001 -002 101078 101079-001 -003 -004 101081-001 101082-003 101083-002	SF 8 REGOD 1 2 2 3 1 4 1 1 1 1 1 1 3 2 2			PART NUMBER RE DATESHEET _6 _ OF REMARKS NEXT ASSEMBLY/USED ON Used on 301351
or—	1 1 2 3 4 4 5 6 6 7 8 9 10 11 12	ERKIN-ELMER mory Products Division SUPER SERIES DESCRIPTION POWER SUPPLY & OCP ITEMS: Fuse 5 amp Fuse 10 amp Bridge , Diode MDA-980-1 Rocker Switch Bezel, Switch Lens, "POWER" Lens, "PROTECT CART" Lens, "PROTECT CART" Lens, "PROTECT FIXED" Lens, "READY/LOAD" Lamp, 28V Lamp, 28V	PART NO. 100028-020 100028-027 101033-002 101077-001 -002 101078 101079-001 -003 -004 101081-001 101082-003 101083-002	SF 8 REGOD 1 2 2 3 1 4 1 1 1 1 1 1 3 2 2			PART NUMBER RE DATESHEET _6 _ OF REMARKS NEXT ASSEMBLY/USED ON Used on 301351
or—	1 1 2 3 4 4 5 6 6 7 8 9 10 11 12	ERKIN-ELMER mory Products Division SUPER SERIES DESCRIPTION POWER SUPPLY & OCP ITEMS: Fuse 5 amp Fuse 10 amp Bridge , Diode MDA-980-1 Rocker Switch Bezel, Switch Lens, "POWER" Lens, "PROTECT CART" Lens, "PROTECT CART" Lens, "PROTECT FIXED" Lens, "READY/LOAD" Lamp, 28V Lamp, 28V	PART NO. 100028-020 100028-027 101033-002 101077-001 -002 101078 101079-001 -003 -004 101081-001 101082-003 101083-002	SF 8 REGOD 1 2 2 3 1 4 1 1 1 1 1 1 3 2 2			PART NUMBER RE DATESHEET 6 OF REMARKS NEXT ASSEMBLY/USED ON Used on 301351 " " " " " " " " " " " " " " " " " "
or—	1 1 2 3 4 4 5 6 6 7 8 9 10 11 12	ERKIN-ELMER mory Products Division SUPER SERIES DESCRIPTION POWER SUPPLY & OCP ITEMS: Fuse 5 amp Fuse 10 amp Bridge , Diode MDA-980-1 Rocker Switch Bezel, Switch Lens, "POWER" Lens, "PROTECT CART" Lens, "PROTECT CART" Lens, "PROTECT FIXED" Lens, "READY/LOAD" Lamp, 28V Lamp, 28V	PART NO. 100028-020 100028-027 101033-002 101077-001 -002 101078 101079-001 -003 -004 101081-001 101082-003 101083-002	SF 8 REGOD 1 2 2 3 1 4 1 1 1 1 1 1 3 2 2			PART NUMBER RE DATESHEET _6 _ OF REMARKS NEXT ASSEMBLY/USED ON Used on 301351
or—	1 1 2 3 4 4 5 6 6 7 8 9 10 11 12	ERKIN-ELMER mory Products Division SUPER SERIES DESCRIPTION POWER SUPPLY & OCP ITEMS: Fuse 5 amp Fuse 10 amp Bridge , Diode MDA-980-1 Rocker Switch Bezel, Switch Lens, "POWER" Lens, "PROTECT CART" Lens, "PROTECT CART" Lens, "PROTECT FIXED" Lens, "READY/LOAD" Lamp, 28V Lamp, 28V	PART NO. 100028-020 100028-027 101033-002 101077-001 -002 101078 101079-001 -003 -004 101081-001 101082-003 101083-002	SF 8 REGOD 1 2 2 3 1 4 1 1 1 1 1 1 3 2 2			PART NUMBER RI DATE SHEET OF REMARKS NEXT ASSEMBLY/USED ON Used on 301361

MASTER SPARES LIST

MODEL SF & ST

MATERIAL LIST

PERKIN-ELMER Memory Products Division

TITLE SUPER SERIES

		MA	STER SPARES	LIST					MAS	TER SPARES I	IST						MA	STER SPARES	LIST			
	ERKIN ELMER mory Products Division	MA	TERIAL LI	S T		PART NUMBER REV.		ERKIN-ELMER mory Products Division	<u>M A</u>	TERIAL L	ST		E	PART NUMBER REV.		ERKIN-ELMER mory Products Division	<u>M A</u>	TERIAL L	IST		PART NUMBER	REV.
דוד	LE SUPER SERIES					DATE SHEET OF	L	TLE SUPER SERIES						SHEET OF	J L	SUPER SERIES		MODEL .	SF & ST	DA	E SHEET .	9 _{- OF}
ITEM NO.	DESCRIPTION		PART NO.	REQD MI	N. ACT. V. REV.	REMARKS	ITEM NO.	DESCRIPTION		PART NO.	REOD A	MIN. ACT. REV. REV		REMARKS	ITEM NO.	DESCRIPTION		PART NO.	REOD MI	N. ACT. V. REV.	REMARKS	
П	ELECTRONIC COMPONE	NTS (con.t				NEXT ASSEMBLY/USED ON		ELECTRONIC COMPO	NENTS (cont)				EXT ASSEMBLY/USED ON	\prod	ELECTRONIC COMP	ONENTS (cont)		TE	NEXT ASSEMBLY/USE	D ON
+	IC. Dual Monostable	9602	100234	1		Used on 301320	19	IC. Dual D Flip-Flop	74574	123023	1		Used	on 301320	31	Transistor, NPN	2N2222A	101052	1		Isèd_on.301650	
-	IC. Quad 2 Input NOR	7402	100329	1		" " 301062	20	IC. Quad 2-Input NAND	74LS00	123029	1		"	" 301632					1	Ι,	" 301653	
				1		" " 301453					1		"	" 301687					8	,	" 301206	
3	IC. Hex Inverter	7404	100330	1 }		" " 301483					1		"	" 301320	1 [5	T .		
				1		" " 301453	П				1		"	" 301174	32	Transistor, PNP	2N2907A	101053	3	1 7	″ 301483	
4	IC. Hex Inverter	7406	100331	1		" " 301653	П				1		"	" 301206	1 [3	T .	" 301653	
				1		" " 301206	21	IC. Quad 2-Input AND	74LS08	123032	4		"	" 301687	1 🖂				7	1 ,	" 301206	
5	IC. Quad 2 Input AND	7408	100332	2		" " 301062					2		"	" 301320	33	Transistor, NPN		151003	3	1 ,	″ 301653	
1	IC. Quad 2 Input NOR	SP380	100347	5		" " 301062					5		"	" 301174	1 [1	1 ,	" 301483	
-	IC. Quad 2 Input NAND	7403	101007	1 !		" " 301453					3		1"	" 301632	1 [1	1 ,	" 301650	
-		7426	101011	ż i		" " 301483	22	IC. Triple 3-Input AND	74LS11	123034	3		"	" 301687	34	Transistor, PNP		151004	1	1 1.	" 301483	
	IC. Voltage Comp.	311	101022	5		′ ′′ 301483					1		"	" 301320	1				3		" 301653	
۳	To. Voltage comp.			3 1		301206					2		"	" 301632	35	Diode-Rect200V.	1N4003	100127	1		" 301354	
\vdash				1		301632	23	IC. Quad 2-Input OR	74LS32	123035	2		"	" 301687	1				3	1 7	" 301206	
\vdash				3		301170					1		···	" 301174	1				1	1 ,	" 301354	
10	IC. Timer	555V	101023	1		301653					2		"	" 301320	1				5	1 .	" 301636	
H	10. Time			1		301174					1		"	" 301632					1	,	" 301650	
11	IC. BI. Direct One Shot.	8T20B	101024	1		301320	24	IC. Quad D Flip-Flop	74LS74	123036	3		"	" 301174	1				1	1 .	" 301291	
_	IC. Dual OpAmp.	5558	101026	12		301483					3		"	" 301320	1 🖂				2	1 .	" 301062	
<u> </u>	70. 200. 07.			1		301687					6		"	" 301632	1 [1	,	" 301453	
\vdash				1		. 301632	П				1	\neg	"	" 301653	36	Diode, Signal	1N5317	101034	36	1 1.	" 301206	
13	IC. Analog Sw.	1H5020	101029-003	4		301483					4		"	" 301687	1 [2	-	" 301632	
۳	To: Analog on:			3	1	301687	25	IC. 4-Line to 10-Line Dec	oder	123037	1		"	" 301653	37	Diode, Zener. 6.8V.	1N5235B	101058-010	1		" 301483	
14	IC. Dual NAND Driver	75452	101031	1		301483	26	IC. Quad 2-Input Mux.	74LS157	123040	2		".	" 301653	1	10V.	1N5240B	-015	1	7,	" 301483	
 	TO, DOC. T. MAD DITTE	,		2		301206	П				2		"	" 301174					2	-	" 301206	
\vdash				10	\top	301062	27	IC. Hex Inverter	74S04	123046	1		"	" 301206	1	5.1V.	1N5231B	-006	1	1 1	" 301483	
				12		- 301453		**			1		"	" 301320		· · · · · · · · · · · · · · · · · · ·			1	-	" 301320	
15	IC. Video Amp.	592	101032	2		301206	28	IC. Quad 2-Input AND	74S08	123050	1		"	" 301320	1				1	- "	" 301632	
_	IC. D/A Converter	1406	101088	1	1	301687	29	IC. Voltage Reg.	78M05	125005-005	1		"	" 301320	1 [4.7V.	1N5230B	-005	2	,,	" 301632	
_	IC. Dual AND Driver	75451	101139	3		" " 301653				-008	1		"	" 301206	1 🖂				1	"	" 301653	
_	IC. Hex Inverter	7414	123001	1		" " 301453	30	IC. Op-Amp. Precision	LM308	125009	3		"	" 301457					1	"	" 301206	
_	IC. Dual D Flip-Flop	74574	123023	1 .		301206	31	Transistor, NPN	2N2222A	101052	5	T i	"	" 301483	38	Inductor, 5% 2	20uh	122500-001	1	1 "	" 301206	$\overline{}$
													•		السنساء م					+	55.250	

	ERKIN ELMER MA	TERIAL L	IST				PART NUMBER	REV
	THE SUPER SERIES		SF &	ST		١	10)
TEM		PART NO.	REQD	MIN. REV.	ACT.	DATE,		OF
NO.	DESCRIPTION	PAHT NU.	HEUD	REV.	REV.		9EMARKS	
	ELECTRONIC COMPONENTS (cont.)						NEXT ASSEMBLY/USED	ON
39	Inductor, 5% 1,5uh	101074-010	1			Use	d on 301206	
		101074-270	2			"	" 301206	
40	Resistor, Variable 10K	100163-103	2			"	" 301483	
	5K	-503	ļ_			"	<u>" 3</u> 01632	
41	Resistor, Variable 10K	138000-103	2	$oxed{oxed}$		"	" 301483	
		-202	12	\sqcup		,,	" 301206	
42	IC Quad 2 Input NAND 74S00	123028	Ļــ				" 301320	
43	IC. Hex Inverter 74LS04	123030	1			"	" 301206	
			1	\Box		"	" 301687	
			1	Ш		"	<u>"</u> 301174	
			1			"	" 301632	
44	IC. Hex Inverter 74LS04	123031	1			"	" 301687	
			2	Ш		"	" 301174	
45	IC. Triple 3-Input NAND 74LS10	123033	1			"	" 301687	
	741.006		1			"	" 301632	
46	IC. Quad 2-Input Exclusive OR	123038	1_	1		"	" 301174	
			3	\vdash		"	" 301687	
	7/1 (122		1_			"	" 301206	
47	74LS123 IC. Dual Re-Triggerable One Shot	123039	4_				" 301174	
			2		\dashv	"	" 301687	
_			3_	 		"	" 301632	
48	IC. 4-Bit Binary Counter 74LS193	123041	2	\vdash		"	" 301632	
_			3			"	" 301687	
49	IC. 4-Bit Binary Counter 74LS293	123042	3	\sqcup		"	" 301632	
_			4			"	" 301174	
50	IC. 4-Bit Full Adder 74LS283 IC. Dual Non-Triggerable One Shot	123033	3	 		''	" 301687	
51	IC. Dual Non-Triggerable One Shot	123043	2	\vdash	_	"	" 301632	
52	IC. Quad 4-Bit Counter 741 S175 74LS14 IC. Hex Schmidt-Trigger Inverter	123045	2	\sqcup	_	"	" 301687	
53	IC. Hex Schmidt-Trigger Inverter	123047	2	\sqcup	_	"	" 301632	
			1	!	\rightarrow	"	" 301206	
54	IC Dual 4 Input NAND 741 S20	123048	1 1	: 1		"	" 301632	

SF & ST DATE S SF & ST DATE S ST S ST S ST S ST S S	BER RE	PART NUMBER				IST	TERIAL L	M.A	RKIN-ELMER ory Products Division	
ELECTRONIC COMPONENTS (concluded)	EET_11 OF_	SHEET _	. DATE .		§ ST	SF 8	MODEL _			
ELECTRONIC COMPONENTS (concluded)	s	REMARKS		ACT. REV.	MIN. REV.	REOD	PART NO.			EM IO.
55 IC. Up-Down Counter 74I S192 123049 1 Used on 301632 56 IC. Quad 2 Input Schmidt: Trigger NAN D123067 1 " 301206 57 IC. Voltage Regulator 7805 125006-005 1 " 301650 58 IC. Voltage Regulator 7812HC 125006-012 1 " 301206 59 IC. Voltage Regulator 79M05UC 125007-005 1 " 301206	Y/USED ON	NEXT ASSEMBLY/USED	Ė			Ī				\neg
55. IC. Quad 2 Input Schmidt: Trigger NAN 0123067 1 " " 301206 52. IC. Voltage Regulator 7805 125006:005 1 " " 301650 58. IC. Voltage Regulator 7812HC 125006:012 1 " " 301206 59. IC. Voltage Regulator 79M05UC 125007:005 1 " " 301206							ded)	ENTS (conclu	LECTRONIC COMPON	
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